

AD-A207 990

# SMOS

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #13025, Roia, Spain	LAT: 36.38 N, LONG: 06.21 W
PERIOD: HOURLY: 1958-1987	DAILY: 1958-1987
ELEVATION: 86 feet	
JOB NO: TASK: RN3A32KD	DATE: March 1989

PREPARED BY  
NAVAL OCEANOGRAPHY  
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure.		

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3146.KA

04 MAY 1989

From: Officer in Charge, Naval Oceanography Command Detachment Asheville

Subj: SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS)

1. Discussion. This edition of the SMOS was produced utilizing a revised software package. The product has been expanded to include station climatic summary tables and is considered a stand alone publication. This update includes the period of record (POR) through 1986 for all hourly and daily data. Our revised production methodology incorporates two computerized editing phases after the initial processing stage and a manual review and intervention of suspect data prior to the print phase. Every effort has been made to produce at least a 99.9 percent data perfect product based on the stations observation data. We have switched to a direct computer printout on standard computer paper instead of the previous print format. This results in a 85 percent print cost savings over our old specialized print format.

2. Weather Conditions. This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in two tables as follows:

Table 13 By month, all years combined, by standard 3-hour groups and all hours combined.

Table 14 By month and annual, all hours and years combined, by wind direction.

Occurrences of the various phenomena included in each category on the forms are listed below:

- a. Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.
- b. Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.
- c. Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.
- d. Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.
- e. Hail - Occurrences of hail and small hail are included.
- f. Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.
- g. Fog - Included are fog, ice fog, and ground fog.
- h. Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.
- i. Blowing snow - Occurrences of blowing snow also drifting snow when reported from non-WBAN sources.
- j. Dust and/or sand - Included are blowing dust, blowing sand, and dust.
- k. Blowing spray - This item if reported, is not shown in a separate category on this table but is included in the computation Percentage of Observations with Obstructions to Vision.

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INSPECTED  
2

1. Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

2. Atmospheric Phenomena Table 36: This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

a. The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

b. This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

4. Precipitation, Snowfall and Snow Depth. These elements are presented using the daily amounts and extreme value

a. Tables 8, 9, and 10 provide for each element separately the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least).

b. Table 21 for each element presents the extreme daily amounts by individual month and day for the entire period of record available.

c. Tables 23, 24, and 25 provide for each element separately individual year and month extreme daily amounts and the means and standard deviations for each month and annual for all months combined.

NOTE 1: Snow depth was recorded and punched at various hours during the period available from U.S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

U.S. Navy and Weather Bureau Stations:

From beginning of record thru Jun 52 - Snow depth at 0030 UTC  
Jul 52 - May 57                      Snow depth at 1230 UTC  
Jun 57 - present                      Snow depth at 1200 UTC

NOTE 2: Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.



## 5. Surface Winds.

a. Extreme Values - Peak Gusts Table 27: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with <90% observations reported is also provided.

b. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction. A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

Table 1 contains three presentations prepared for all surface winds included, and for all years combined as follows:

- (a) By month - by standard 3-hour groups
- (b) By month - all hours combined
- (c) Annual - all hours combined

6. Ceiling Versus Visibility Table 2. This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

- (a) By Month - by standard 3-hour groups
- (b) By Month - all years and all hours combined
- (c) Annual - all years and all hours combined

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minimal may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on the following pages.

Beginning in July 1948 for U. S. Air Force stations and January 1949 for National Weather Service (NWS) and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4
NO CEILING											≥ 0
≥ 1800											
≥ 1500					91.0						92.6
≥ 1200											
≥ 1000											
≥ 900											
≥ 800											
≥ 700											
≥ 600											
≥ 500											
≥ 400											
≥ 300											
≥ 200											
≥ 100											
≥ 0					95.4		96.9		97.4		98.1
											100.0

EXAMPLE # 1: Read ceiling values independently of visibility under column at right headed > 0. For instance, from the table:

Ceiling ≥ 1500 feet = 92.6%.  
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2: Read visibilities independently of ceilings on bottom line opposite > 0. From the tables:

Visibility ≥ 3 miles = 95.4%.  
Visibility ≥ 2 miles = 96.9%.  
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3: To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

EXAMPLE # 4: Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5: To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  miles.

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

7. Sky Cover Table 11. This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover (see Note 3) and total number of observations. It is presented as follows:

By month and annual - by standard 3-hour groups, and all hours combined.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. NWS stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some data sources used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	TENTHS
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

0/10 equates to clear  
 1/10 to 5/10 equates to scattered  
 6/10 to 9/10 equates to broken  
 10/10 equates to overcast

#### 8. Psychrometric Summaries.

a. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

Table 5 Daily maximum temperature  
Table 6 Daily minimum temperature  
Table 7 Daily mean temperature

b. Daily Average/Extreme Temperatures Table 29 derived observations and presented for each month and day for entire period of record available are average temperature, average and extreme maximum temperature, average and extreme minimum.

c. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard of daily extreme temperatures are prepared:

Table 30 Extreme maximum temperature  
Table 31 Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

d. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature Table 3. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:

(1) The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression is 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

(2) Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of each page. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma$ ). The number of observations used in the computations for each element is also shown.

(3) At the lower right of each page Table 40 gives the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

d. Means and standard deviations. These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

Table 15 Dry-bulb temperature  
Table 16 Wet-bulb temperature  
Table 17 Dew-point temperature

e. Cumulative percentage frequency of occurrence of relative humidity Table 12. This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

By Month and Annual - by standard 3-hour groups, and all hours combined with the hour groups being the vertical argument. All years are combined for this summary.

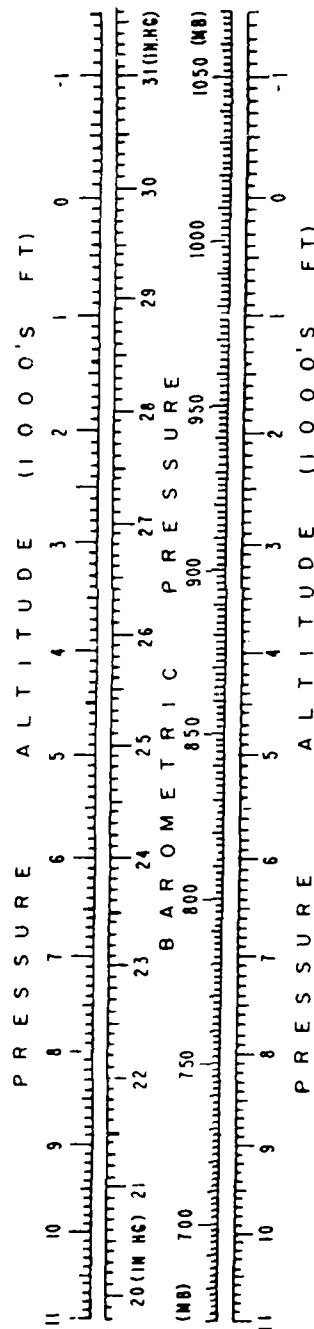
f. Percentage frequency of occurrence of dry-bulb temperature versus wind direction **Table 4.** This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in five degree increments and horizontally by eight wind directions (plus calm).

9. Pressure Summary. Two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times UTC. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables.

**Table 18** Station pressure in inches of mercury

**Table 19** Sea-level pressure in millibars

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure latitude in 1000's of feet. This scale is an enlarged model of the pressure latitude scale in the Smithsonian Meteorological Tables.



*M. L. DICKENSON*  
M. L. DICKENSON

# TABULATION INDEXES BY NUMBER

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39	OMITTED	

[illegible]

# 1 - SURFACE WINDS

C13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL %					MEAN WIND SPEED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : POTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)													TOTAL %	MEAN WIND SPEED
16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56			
N	1.6	3.8	1.7	.2	.0	.0	.0	.0	.0	.0	.0	7.4	5.4	
NNE	1.7	4.8	4.3	.3	.0	.0	.0	.0	.0	.0	.0	11.2	6.0	
NE	2.3	3.2	2.1	.5	.0	.0	.0	.0	.0	.0	.0	8.1	5.4	
ENE	5.0	3.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	8.9	3.4	
E	7.5	5.8	1.3	.8	.2	.1	.0	.0	.0	.0	.0	15.7	4.5	
ESE	.8	.8	1.8	1.0	.6	.0	.0	.0	.0	.0	.0	5.1	9.2	
SE	.7	.7	1.0	.8	.3	.0	.0	.0	.0	.0	.0	3.6	8.7	
SSE	.1	.2	.7	.5	.0	.0	.0	.0	.0	.0	.0	1.5	8.6	
S	.1	.9	.8	1.5	.2	.1	.0	.0	.0	.0	.0	3.7	10.4	
SSW	.1	.6	.7	.9	.2	.1	.1	.0	.0	.0	.0	2.8	11.5	
SW	.3	1.2	1.3	.7	.0	.0	.0	.0	.0	.0	.0	3.5	7.8	
WSW	.3	.9	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	3.8	9.0	
W	.7	.6	1.2	1.2	.2	.1	.1	.0	.0	.0	.0	4.0	10.1	
WNW	.2	.6	.8	.3	.1	.2	.0	.0	.0	.0	.0	2.3	10.1	
NW	1.2	1.6	1.8	.8	.2	.0	.0	.0	.0	.0	.0	5.6	7.2	
NNW	1.6	2.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	4.6	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	.0	
ALL	24.3	31.0	22.1	10.8	2.4	.7	.2	.0	.0	.0	.0	100.0	6.0	

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05



1 - SURFACE WINDS

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
16 PT. DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56				
N	1.8		3.5		1.8	.5	.1	.0	.0	.0	.0	.0	.0	7.7	5.6		
NNE	1.5		5.4		5.9	.8	.0	.0	.0	.0	.0	.0	.0	13.6	6.5		
NE	3.0		4.0		2.5	.5	.0	.0	.0	.0	.0	.0	.0	10.0	5.2		
ENE	4.4		5.1		.2	.1	.0	.0	.0	.0	.0	.0	.0	9.8	3.7		
E	5.8		6.5		1.4	1.0	.1	.1	.0	.0	.0	.0	.0	14.9	5.0		
ESE	1.2		.7		1.2	1.8	.1	.0	.0	.0	.0	.0	.0	5.0	8.7		
SE	.6		.6		.5	1.0	.1	.0	.0	.0	.0	.0	.0	2.8	9.1		
SSE	.5		.1		.7	.2	.2	.0	.0	.0	.0	.0	.0	1.7	8.7		
S	.2		.3		.9	.8	.1	.0	.0	.0	.0	.0	.0	2.4	9.4		
SSW	.2		.9		.8	1.0	.1	.0	.0	.0	.0	.0	.0	3.1	8.9		
SW	.1		.6		1.2	.9	.2	.0	.0	.0	.0	.0	.0	3.0	10.3		
WSW	.3		.6		1.5	.9	.1	.0	.0	.0	.0	.0	.0	3.5	8.9		
W	.3		.3		1.6	1.0	.3	.1	.0	.0	.0	.0	.0	3.8	10.2		
WNW	.5		.5		1.4	.5	.1	.0	.0	.0	.0	.0	.0	2.9	8.2		
NW	1.0		.7		1.5	.6	.1	.0	.1	.0	.0	.0	.0	4.0	7.6		
NNW	.9		1.5		.9	.1	.0	.0	.0	.0	.0	.0	.0	3.5	5.5		
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	.0		
ALL	22.4	31.2	24.0	11.9	1.8	.2	.1	.0	.0	.0	.0	.0	.0	100.0	6.0		

TOTAL NO. OF OBS : 868

NOTES :  
\* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND		
N	2.2	3.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	5.1	
NNE	2.1	5.4	5.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	6.4	
NE	2.6	5.8	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	5.9	
ENE	4.5	5.2	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	4.4	
E	5.0	5.8	1.2	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2	5.2	
ESE	.9	1.0	1.3	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	9.2	
SE	1.2	.3	.5	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	8.7	
SSE	.1	.2	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	10.9	
S	.1	.6	1.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.6	
SSW	.3	.3	.7	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	10.2	
SW	.2	.6	1.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	9.5	
WSW	.0	.8	.7	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	10.8	
W	.8	.7	.7	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	9.2	
WNW	.5	.1	.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	9.6	
NW	.6	1.2	1.3	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.7	
NNW	1.3	.9	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	
ALL	22.4	32.1	23.3	13.5	2.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.4	

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	31	4	-	61	7-101	11-161	17-211	22-271	28-331	34-401	41-471	48-551	>=561	TOTAL %	MEAN WIND SPEED		
		SPEED (KNOTS)																		
N	.9			3.0				3.0	.8	.0	.0	.0	.0	.0	.0	.0	7.7	6.6		
NNE	1.5			4.1				5.2	2.3	.3	.1	.0	.0	.0	.0	.0	13.6	7.8		
NE	.6			3.6				4.3	1.0	.1	.1	.0	.0	.0	.0	.0	9.7	7.4		
ENE	.8			2.0				1.3	.1	.0	.1	.0	.0	.0	.0	.0	4.3	6.2		
E	1.4			1.2				2.0	2.0	.7	.1	.0	.0	.0	.0	.0	7.3	9.2		
ESE	.3			1.4				1.2	3.0	.1	.3	.0	.0	.0	.0	.0	6.3	10.9		
SE	.2			.7				1.8	2.2	.3	.1	.0	.0	.0	.0	.0	5.4	11.0		
SSE	.2			1.7				1.4	.8	.3	.1	.0	.0	.0	.0	.0	4.6	8.6		
S	1.2			1.4				1.4	1.8	.1	.0	.1	.0	.0	.0	.0	6.0	8.7		
SSW	.6			.9				1.2	1.0	.1	.0	.0	.0	.0	.0	.0	3.8	8.2		
SW	.5			.7				1.2	.8	.1	.0	.0	.0	.0	.0	.0	3.2	8.5		
WSW	.8			.6				1.6	1.3	.3	.0	.0	.0	.0	.0	.0	4.6	9.4		
W	.9			1.6				1.5	2.2	.6	.1	.0	.0	.0	.0	.0	6.9	9.4		
WNW	.7			.7				1.5	1.0	.5	.0	.0	.0	.0	.0	.0	4.4	9.0		
NW	.8			.8				2.3	1.6	.6	.0	.0	.0	.0	.0	.0	6.1	9.4		
NNW	.3			.6				1.5	.5	.0	.0	.0	.0	.0	.0	.0	2.9	7.9		
VAR	.0			.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0			.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0		
ALL	11.8			24.9				32.1	22.5	4.3	1.2	.1	.0	.0	.0	.0	100.0	8.3		

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

Q13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
SPEED (KNOTS)																	
N	1.2	3.6	2.5	.9					.0	.0	.0	.0	.0	.0	.0	8.2	6.4
NNE	.6	2.9	3.3	1.7					.3	.0	.0	.0	.0	.0	.0	8.9	8.2
NE	.5	1.6	1.5	.7					.1	.0	.0	.0	.0	.0	.0	4.4	7.7
ENE	.1	1.5	.3						.2	.0	.0	.0	.0	.0	.0	2.2	6.7
E	.5	.5	1.0	1.8					.7	.1	.0	.0	.0	.0	.0	4.6	11.4
ESE	.2	.6	2.5	3.5					.6	.1	.0	.0	.0	.0	.0	7.5	11.4
SE	.1	.8	2.0	2.0					.0	.0	.0	.0	.0	.0	.0	4.8	10.1
SSE	.3	.3	1.2	.6					.0	.0	.0	.0	.0	.0	.0	2.4	8.3
S	.9	1.7	2.1	2.1					.1	.0	.0	.0	.0	.0	.0	6.9	8.3
SSW	.8	1.6	1.4	1.5					.1	.0	.0	.0	.0	.0	.0	5.4	8.2
SW	.9	.8	2.4	1.3					.2	.0	.0	.0	.0	.0	.0	5.6	8.4
WSW	.5	1.7	2.2	2.2					.3	.0	.0	.0	.0	.0	.0	6.9	9.1
W	1.0	3.6	4.0	2.9					.5	.2	.0	.0	.0	.0	.0	12.2	8.7
WNW	.3	1.7	2.9	2.5					.3	.0	.0	.0	.0	.0	.0	7.8	9.3
NW	.5	1.5	1.7	.9					.2	.0	.1	.0	.0	.0	.0	5.0	8.7
NNW	.6	2.4	1.4	.5					.0	.0	.1	.0	.0	.0	.0	5.0	7.0
VAR	.0	.0	.0	.0					.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0					.0	.0	.0	.0	.0	.0	.0	2.2	.0
ALL	9.0	26.8	32.5	25.0					3.8	.5	.2	.0	.0	.0	.0	100.0	8.5

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN	
DIR.		SPEED (KNOTS)																%	SPEED
N	3.3			3.1			.5		.0		.0		.0		.0		6.9	3.7	
NNE	2.0			3.7			1.6		.2		.0		.0		.0		7.5	5.1	
NE	.8			2.1			.9		.0		.0		.0		.0		3.8	5.1	
ENE	.9			.7			.0		.0		.0		.0		.0		1.6	3.4	
E	1.0			.8			2.4		1.0		.1		.0		.0		5.5	8.0	
ESE	.6			1.5			1.8		2.1		.3		.0		.0		6.3	9.3	
SE	.2			.8			1.2		1.6		.1		.0		.0		3.9	9.9	
SSE	1.2			.5			.5		.6		.0		.0		.0		2.6	6.0	
S	.5			1.4			.8		1.0		.1		.0		.0		3.9	8.6	
SSW	.8			.9			.8		.9		.1		.0		.0		3.7	8.3	
SW	.7			1.4			1.6		1.7		.2		.0		.0		5.8	9.1	
WSW	1.6			1.4			2.8		1.2		.2		.0		.0		7.3	7.6	
W	3.5			3.9			2.2		1.5		.5		.0		.0		11.6	6.5	
WNW	2.8			2.3			1.3		.7		.2		.0		.0		7.3	5.6	
NW	4.4			2.5			.9		.3		.2		.0		.0		8.4	4.5	
NNW	2.5			1.6			.1		.1		.0		.0		.0		4.4	3.5	
VAR	.0			.0			.0		.0		.0		.0		.0		.0	.0	
CLM	.0			.0			.0		.0		.0		.0		.0		9.4	.0	
ALL	26.7			28.6			19.4		13.0		2.2		.7		.0		100.0	5.9	

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND		SPEED			
N	2.4	3.6				.5	.0	.0	.0	.0	.0	.0	.0	.0	6.5		3.9				
NNE	1.5	2.5			1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2		4.7				
NE	2.1	1.4			.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4		4.2				
ENE	3.1	1.3			.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6		3.3				
E	4.4	4.3			1.5	1.0	.0	.1	.0	.0	.0	.0	.0	.0	11.3		5.2				
ESE	1.3	1.6			1.5	2.0	.2	.0	.0	.0	.0	.0	.0	.0	6.6		8.0				
SE	.7	1.0			1.4	1.4	.1	.0	.0	.0	.0	.0	.0	.0	4.6		8.2				
SSE	.6	.5			.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.7		6.3				
S	.5	1.4			1.3	.8	.2	.1	.0	.0	.0	.0	.0	.0	4.3		8.5				
SSW	.5	.2			1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.6		9.8				
SW	.5	1.4			1.4	1.3	.2	.0	.0	.0	.0	.0	.0	.0	4.7		8.5				
WSW	.8	.9			1.3	.9	.2	.1	.0	.0	.0	.0	.0	.0	4.3		8.5				
W	1.3	2.0			1.8	1.5	.1	.1	.0	.0	.0	.0	.0	.0	6.8		7.7				
WNW	2.1	.7			1.0	.5	.2	.1	.1	.0	.0	.0	.0	.0	4.7		6.7				
NW	2.2	2.5			1.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	6.9		6.1				
NNW	3.6	2.2			.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	6.7		4.1				
VAR	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
CLM	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.2		.0				
ALL	27.3	27.4			17.4	10.9	2.0	.7	.1	.0	.0	.0	.0	.0	100.0		5.3				

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTIA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : JAN  
 CLASS : ALL WEATHER HOUR : ALL  
 CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)														TOTAL %	MEAN WIND SPEED
16 PT.	1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47		
DIR.															
N	1.9			3.5			1.6	.3	.0*	.0	.0	.0	.0	.0	.0
NNE	1.6			4.1			3.6	.8	.1	.0*	.0	.0	.0	.0	.0
NE	1.7			2.9			2.2	.5	.0*	.0*	.0	.0	.0	.0	.0
ENE	2.8			2.8			.6	.1	.0*	.0*	.0	.0	.0	.0	.0
E	4.2			3.8			1.5	1.2	.3	.1	.0	.0	.0	.0	.0
ESE	.7			1.2			1.6	2.1	.3	.1	.0	.0	.0	.0	.0
SE	.5			.7			1.1	1.4	.2	.0*	.0	.0	.0	.0	.0
SSE	.4			.5			.7	.5	.1	.0*	.0	.0	.0	.0	.0
S	.5			1.1			1.1	1.3	.1	.0*	.0*	.0	.0	.0	.0
SSW	.5			.7			.9	1.1	.2	.0*	.0*	.0	.0	.0	.0
SW	.5			1.0			1.4	1.0	.2	.0*	.0	.0	.0	.0	.0
WSW	.6			.9			1.6	1.2	.2	.1	.0	.0	.0	.0	.0
W	1.2			1.7			1.8	1.5	.3	.1	.0*	.0	.0	.0	.0
WNW	1.0			.9			1.3	.8	.2	.1	.0*	.0	.0	.0	.0
NW	1.4			1.7			1.5	.7	.3	.0*	.0*	.0	.0	.0	.0
NNW	1.7			1.6			.9	.3	.0*	.0	.0*	.0	.0	.0	.0
VAR	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	21.1			29.3			23.5	14.7	2.7	.7	.1	.0	.0	.0	.0

TOTAL NO. OF OBS : 6944

NOTES : \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	12.2	57.7	60.1	61.4	61.7	61.7	62.3	62.5	62.8	62.8	62.8	62.9	63.0	63.4	63.7
>=20000	12.2	59.1	61.8	63.3	63.6	63.6	64.2	64.4	64.7	64.7	64.7	64.8	64.9	65.3	65.6
>=18000	12.2	59.6	62.3	63.7	64.1	64.1	64.7	64.9	65.1	65.1	65.1	65.3	65.4	65.7	66.1
>=16000	12.2	59.7	62.4	63.8	64.2	64.2	64.8	65.0	65.3	65.3	65.3	65.4	65.5	65.8	66.2
>=14000	12.2	60.0	62.7	64.1	64.4	64.4	65.0	65.3	65.5	65.5	65.5	65.6	65.7	66.1	66.4
>=12000	12.5	60.4	63.3	64.7	65.0	65.0	65.6	65.8	66.1	66.1	66.1	66.2	66.3	66.8	67.1
>=10000	12.6	62.4	65.3	66.7	67.0	67.0	67.6	67.8	68.1	68.1	68.1	68.2	68.3	68.8	69.1
>= 9000	12.7	63.5	66.3	67.7	68.1	68.1	68.7	68.9	69.1	69.1	69.1	69.3	69.4	69.8	70.2
>= 8000	13.3	68.0	70.8	72.3	72.7	72.7	73.3	73.5	73.7	73.7	73.7	73.9	74.0	74.4	74.8
>= 7000	13.5	70.0	72.8	74.3	74.7	74.7	75.3	75.5	75.9	75.9	75.9	76.0	76.1	76.6	76.9
>= 6000	13.8	70.7	73.5	75.0	75.4	75.4	76.0	76.2	76.6	76.6	76.6	76.7	76.8	77.3	77.6
>= 5000	13.9	72.2	75.1	76.8	77.1	77.1	77.7	78.0	78.3	78.3	78.3	78.4	78.6	79.0	79.4
>= 4500	14.0	72.8	75.7	77.5	77.9	77.9	78.4	78.7	79.0	79.0	79.0	79.2	79.3	79.7	80.1
>= 4000	14.1	75.0	78.1	79.9	80.2	80.2	80.8	81.0	81.4	81.4	81.4	81.5	81.6	82.1	82.4
>= 3500	14.4	76.0	79.0	80.9	81.3	81.3	81.9	82.1	82.4	82.4	82.4	82.6	82.7	83.2	83.5
>= 3000	14.5	77.9	80.9	82.9	83.3	83.3	83.9	84.1	84.5	84.5	84.5	84.6	84.7	85.2	85.5
>= 2500	14.6	80.8	84.3	86.3	86.8	86.8	87.4	87.6	88.0	88.0	88.0	88.1	88.2	88.7	89.0
>= 2000	15.0	82.7	86.6	88.9	89.5	89.5	90.2	90.5	90.8	90.8	90.8	90.9	91.0	91.5	91.9
>= 1800	15.0	82.9	86.8	89.2	89.8	89.8	90.5	90.7	91.0	91.0	91.0	91.2	91.3	91.8	92.1
>= 1500	15.1	84.6	88.7	91.4	92.1	92.1	92.9	93.2	93.5	93.5	93.5	93.6	93.8	94.2	94.6
>= 1200	15.1	84.8	89.4	92.1	92.8	92.8	93.6	93.9	94.2	94.2	94.2	94.3	94.5	94.9	95.3
>= 1000	15.2	85.4	90.3	93.1	93.8	93.8	94.6	94.8	95.2	95.2	95.2	95.3	95.4	95.9	96.2
>= 900	15.2	85.5	90.5	93.2	93.9	93.9	94.7	94.9	95.3	95.3	95.3	95.4	95.5	96.0	96.3
>= 800	15.2	85.7	90.7	93.4	94.1	94.1	95.1	95.3	95.6	95.6	95.6	95.8	95.9	96.3	96.7
>= 700	15.2	86.0	91.2	93.9	94.6	94.6	95.5	95.9	96.2	96.2	96.2	96.3	96.5	96.9	97.3
>= 600	15.2	86.1	91.4	94.1	94.8	94.8	95.8	96.1	96.6	96.6	96.6	96.7	96.8	97.3	97.6
>= 500	15.2	86.2	91.5	94.2	94.9	94.9	95.9	96.3	96.8	96.8	96.8	96.9	97.1	97.5	97.9
>= 400	15.2	86.3	91.6	94.3	95.1	95.1	96.0	96.5	96.9	96.9	96.9	97.1	97.2	97.6	98.0
>= 300	15.2	86.3	91.6	94.5	95.3	95.3	96.3	96.9	97.4	97.4	97.4	97.5	97.6	98.1	98.7
>= 200	15.2	86.3	91.6	94.5	95.4	95.4	96.5	97.1	97.6	97.6	97.6	97.9	98.0	98.5	99.1
>= 100	15.2	86.3	91.6	94.5	95.4	95.4	96.5	97.2	97.8	97.9	97.9	98.0	98.1	98.6	99.4
>= 0	15.2	86.5	91.8	94.6	95.5	95.5	96.6	97.3	97.9	98.0	98.0	98.2	98.4	98.8	100.0

TOTAL NO. OF OBS : 849



013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.4	57.0	59.2	60.7	61.1	61.3	61.5	61.7	61.7	61.7	61.8	62.0	62.0	62.0	62.4	62.5	62.7	63.8
>=20000	10.4	58.7	61.2	62.7	63.1	63.3	63.5	63.8	63.8	63.8	63.9	64.1	64.1	64.1	64.5	64.6	64.9	66.0
>=18000	10.4	59.1	61.5	63.2	63.5	63.8	64.0	64.2	64.2	64.2	64.4	64.6	64.6	64.6	64.9	65.1	65.4	66.5
>=16000	10.4	59.1	61.5	63.2	63.5	63.8	64.0	64.2	64.2	64.2	64.4	64.6	64.6	64.6	64.9	65.1	65.4	66.5
>=14000	10.7	59.4	61.9	63.5	63.9	64.1	64.4	64.6	64.6	64.6	64.7	64.9	64.9	64.9	65.3	65.4	65.8	66.8
>=12000	10.8	59.8	62.3	63.9	64.2	64.5	64.7	64.9	64.9	64.9	65.1	65.3	65.3	65.3	65.7	65.8	66.1	67.3
>=10000	11.0	61.4	63.9	65.5	65.9	66.1	66.4	66.6	66.6	66.6	66.7	66.9	66.9	66.9	67.3	67.4	67.8	68.9
>= 9000	11.3	62.8	65.4	67.1	67.4	67.6	67.9	68.1	68.1	68.1	68.2	68.5	68.5	68.5	68.8	68.9	69.3	70.5
>= 8000	11.6	66.4	68.9	70.7	71.2	71.4	71.7	72.1	72.1	72.1	72.2	72.5	72.5	72.5	72.8	72.9	73.3	74.4
>= 7000	12.0	68.3	71.0	72.8	73.3	73.5	73.9	74.2	74.2	74.2	74.3	74.6	74.6	74.6	74.9	75.0	75.4	76.6
>= 6000	12.0	68.5	71.2	72.9	73.4	73.6	74.0	74.3	74.3	74.3	74.4	74.7	74.7	74.7	75.0	75.1	75.5	76.7
>= 5000	12.1	69.4	72.2	74.1	74.7	74.9	75.4	75.7	75.7	75.7	75.8	76.1	76.1	76.1	76.4	76.6	76.9	78.1
>= 4500	12.2	69.6	72.5	74.3	74.9	75.1	75.6	76.0	76.0	76.0	76.1	76.3	76.3	76.3	76.7	76.8	77.1	78.3
>= 4000	12.2	71.9	74.7	76.6	77.1	77.4	77.8	78.2	78.2	78.2	78.3	78.5	78.5	78.5	78.9	79.0	79.4	80.5
>= 3500	12.2	72.9	75.8	77.8	78.4	78.7	79.1	79.5	79.5	79.5	79.6	79.8	79.8	79.8	80.2	80.3	80.7	81.8
>= 3000	12.5	76.3	79.5	81.7	82.4	82.6	83.1	83.5	83.5	83.5	83.6	83.8	83.8	83.8	84.2	84.3	84.6	85.8
>= 2500	12.7	78.5	82.2	84.6	85.3	85.6	86.0	86.4	86.4	86.4	86.5	86.8	86.8	86.8	87.2	87.3	87.7	88.9
>= 2000	12.8	80.4	84.6	87.2	87.9	88.2	88.6	89.0	89.0	89.0	89.1	89.3	89.3	89.3	89.9	89.9	90.3	91.4
>= 1800	12.8	80.4	84.6	87.3	88.0	88.3	88.7	89.1	89.1	89.1	89.2	89.4	89.4	89.4	89.9	90.0	90.4	91.6
>= 1500	12.8	81.5	85.7	89.0	89.7	89.9	90.5	90.9	90.9	90.9	91.0	91.2	91.2	91.2	91.7	91.8	92.1	93.3
>= 1200	12.8	81.9	86.6	90.0	90.9	91.1	91.7	92.0	92.0	92.0	92.1	92.4	92.4	92.4	92.8	93.0	93.4	94.6
>= 1000	12.8	82.6	87.3	91.1	91.9	92.1	92.7	93.1	93.1	93.1	93.2	93.4	93.4	93.4	93.9	94.0	94.5	95.7
>= 900	12.8	82.8	87.5	91.2	92.0	92.3	92.8	93.2	93.2	93.2	93.3	93.6	93.6	93.6	94.0	94.1	94.6	95.8
>= 800	12.9	83.4	88.0	91.8	92.6	92.8	93.6	93.9	93.9	93.9	94.0	94.3	94.3	94.3	94.7	95.0	95.4	96.6
>= 700	12.9	83.5	88.2	91.9	92.8	93.1	93.8	94.3	94.3	94.3	94.4	94.6	94.6	94.6	95.1	95.3	95.8	97.0
>= 600	12.9	83.5	88.2	91.9	93.0	93.2	93.9	94.4	94.4	94.4	94.5	94.7	94.7	94.7	95.2	95.4	95.9	97.1
>= 500	12.9	83.5	88.2	91.9	93.0	93.2	93.9	94.5	94.5	94.5	94.6	94.8	94.8	94.8	95.3	95.5	96.0	97.4
>= 400	12.9	83.5	88.2	92.0	93.1	93.3	94.0	94.6	94.6	94.6	94.7	95.0	95.0	95.0	95.4	95.7	96.1	97.8
>= 300	12.9	83.6	88.3	92.1	93.2	93.4	94.1	94.7	94.7	94.7	95.0	95.2	95.2	95.2	95.7	95.9	96.4	98.0
>= 200	12.9	83.6	88.3	92.1	93.4	93.7	94.4	95.0	95.0	95.0	95.2	95.5	95.5	95.5	96.1	96.4	96.8	98.6
>= 100	12.9	83.7	88.4	92.3	93.7	93.9	94.6	95.2	95.2	95.2	95.4	95.8	95.8	95.8	96.4	96.6	97.2	99.1
>= 0	12.9	83.7	88.4	92.3	93.7	93.9	94.6	95.2	95.2	95.2	95.4	95.8	95.8	95.8	96.4	96.6	97.2	100.0

TOTAL NO. OF OBS : 853

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.9	51.8	54.2	56.4	57.1	57.3	57.4	57.5	57.6	58.2	58.4	58.4	58.4	58.4	58.6	58.8	59.1	60.4
>=20000	8.9	53.1	55.5	57.9	58.6	58.7	58.9	59.0	59.1	59.7	60.0	60.0	60.0	60.0	60.1	60.3	60.7	62.0
>=18000	8.9	53.1	55.5	57.9	58.6	58.7	58.9	59.0	59.1	59.7	60.0	60.0	60.0	60.0	60.1	60.3	60.7	62.0
>=16000	9.0	53.2	55.6	58.0	58.7	58.8	59.0	59.1	59.3	59.9	60.1	60.1	60.1	60.1	60.2	60.4	60.8	62.1
>=14000	9.0	53.2	55.6	58.0	58.7	58.8	59.0	59.1	59.3	59.9	60.1	60.1	60.1	60.1	60.2	60.4	60.8	62.1
>=12000	9.0	53.6	56.0	58.3	59.0	59.1	59.4	59.5	59.6	60.2	60.4	60.4	60.4	60.4	60.6	60.8	61.2	62.5
>=10000	9.4	54.8	57.1	59.5	60.2	60.3	60.6	60.7	60.8	61.4	61.6	61.6	61.6	61.6	61.7	62.0	62.3	63.6
>=9000	9.4	56.0	58.3	60.7	61.4	61.5	61.7	61.9	62.0	62.6	62.8	62.8	62.8	62.8	62.9	63.2	63.5	64.8
>=8000	9.7	60.1	62.6	64.9	65.8	66.0	66.2	66.4	66.5	67.1	67.3	67.3	67.3	67.3	67.4	67.7	68.0	69.3
>=7000	9.9	61.5	64.0	66.5	67.5	67.8	68.0	68.1	68.2	68.8	69.1	69.1	69.1	69.1	69.2	69.4	69.8	71.1
>=6000	9.9	62.3	64.8	67.3	68.4	68.6	68.8	68.9	69.1	69.7	69.9	69.9	69.9	69.9	70.0	70.2	70.6	71.9
>=5000	9.9	63.2	66.1	68.6	69.7	69.9	70.1	70.2	70.4	71.0	71.2	71.2	71.2	71.2	71.3	71.5	71.9	73.2
>=4500	10.0	64.2	67.2	69.7	70.7	71.0	71.2	71.3	71.4	72.0	72.3	72.3	72.3	72.3	72.4	72.6	73.0	74.3
>=4000	10.0	65.9	68.8	71.3	72.5	72.7	73.0	73.1	73.2	73.8	74.0	74.0	74.0	74.0	74.3	74.5	74.9	76.2
>=3500	10.4	67.4	70.4	72.8	74.0	74.3	74.5	74.6	74.7	75.3	75.6	75.6	75.6	75.6	75.8	76.0	76.4	77.7
>=3000	10.9	71.1	74.1	76.6	77.9	78.2	78.4	78.5	78.6	79.2	79.5	79.5	79.5	79.5	79.7	80.0	80.4	81.7
>=2500	11.3	74.4	77.9	80.9	82.4	82.6	82.9	83.0	83.1	83.8	84.1	84.1	84.1	84.1	84.4	84.8	85.1	86.4
>=2000	11.7	76.6	80.6	83.8	85.4	85.6	85.8	86.0	86.1	86.9	87.1	87.1	87.1	87.1	87.5	87.8	88.2	89.5
>=1800	11.7	76.6	80.6	83.8	85.4	85.6	85.8	86.0	86.1	86.2	87.0	87.2	87.2	87.2	87.6	88.0	88.3	89.6
>=1500	12.0	77.9	82.1	85.6	87.4	87.6	88.0	88.1	88.2	89.0	89.3	89.3	89.3	89.3	89.6	90.0	90.3	91.6
>=1200	12.0	78.9	83.5	87.1	88.9	89.1	89.5	89.6	89.7	90.6	90.8	90.8	90.8	90.8	91.1	91.5	91.9	93.2
>=1000	12.0	79.7	84.3	88.3	90.1	90.4	90.8	90.9	91.0	91.9	92.1	92.1	92.1	92.1	92.4	92.8	93.2	94.5
>=900	12.0	79.7	84.5	88.5	90.3	90.7	91.0	91.1	91.3	92.1	92.3	92.3	92.3	92.3	92.7	93.0	93.4	94.7
>=800	12.0	79.9	84.8	88.9	90.7	91.0	91.4	91.5	91.6	92.4	92.7	92.7	92.7	92.7	93.0	93.4	93.7	95.0
>=700	12.0	80.0	84.9	89.1	90.9	91.3	91.6	91.7	91.9	92.7	92.9	92.9	92.9	92.9	93.3	93.6	94.0	95.3
>=600	12.0	80.0	85.0	89.3	91.1	91.5	92.0	92.1	92.2	93.0	93.3	93.3	93.3	93.3	93.6	94.0	94.3	95.6
>=500	12.0	80.3	85.2	89.7	91.7	92.1	92.6	92.7	92.8	93.6	93.9	93.9	93.9	93.9	94.3	94.7	95.0	96.5
>=400	12.0	80.3	85.2	89.7	91.7	92.1	92.6	92.7	92.8	93.6	93.9	93.9	93.9	93.9	94.3	94.7	95.0	96.5
>=300	12.0	80.5	85.5	90.0	92.0	92.3	92.9	93.0	93.2	94.0	94.3	94.3	94.3	94.3	94.8	95.3	95.6	97.0
>=200	12.0	80.5	85.5	90.0	92.1	92.4	93.2	93.3	93.4	94.2	94.6	94.6	94.6	94.6	95.0	95.5	96.0	97.6
>=100	12.0	80.5	85.5	90.0	92.1	92.4	93.2	93.4	93.5	94.6	94.9	94.9	94.9	94.9	95.4	96.0	96.6	98.7
>=0	12.0	80.5	85.5	90.0	92.1	92.4	93.2	93.4	93.5	94.6	94.9	94.9	94.9	94.9	95.4	96.0	96.7	100.0

TOTAL NO. OF OBS : 847

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.2	44.3	46.1	48.9	50.2	50.5	51.4	51.7	51.7	51.7	52.0	52.0	52.0	52.0	52.1	52.3	52.3	52.3	53.3
>=20000	10.3	46.9	49.1	52.0	53.5	54.0	54.9	55.2	55.2	55.2	55.4	55.4	55.4	55.4	55.6	55.8	55.8	55.9	57.2
>=18000	10.3	47.1	49.2	52.1	53.7	54.1	55.0	55.3	55.3	55.3	55.6	55.6	55.6	55.6	55.7	55.9	55.9	56.0	57.4
>=16000	10.4	47.3	49.5	52.3	53.9	54.4	55.2	55.6	55.6	55.6	55.8	55.8	55.8	55.8	55.9	56.2	56.2	56.3	57.6
>=14000	10.4	47.3	49.5	52.3	53.9	54.4	55.2	55.6	55.6	55.6	55.8	55.8	55.8	55.8	55.9	56.2	56.2	56.3	57.6
>=12000	10.8	48.3	50.5	53.4	55.0	55.4	56.3	56.6	56.6	56.6	56.9	56.9	56.9	56.9	57.0	57.2	57.2	57.4	58.8
>=10000	11.3	50.1	52.3	55.3	56.9	57.4	58.2	58.6	58.6	58.6	58.9	58.9	58.9	58.9	59.0	59.3	59.3	59.4	60.8
>= 9000	11.5	51.3	53.5	56.5	58.2	58.7	59.5	59.9	59.9	59.9	60.2	60.2	60.2	60.2	60.4	60.6	60.6	60.7	62.2
>= 8000	12.0	55.4	57.7	60.7	62.4	62.9	63.7	64.1	64.1	64.1	64.4	64.4	64.4	64.4	64.6	64.8	64.8	64.9	66.3
>= 7000	12.2	58.1	60.7	63.7	65.4	65.9	66.8	67.2	67.2	67.2	67.5	67.5	67.5	67.5	67.7	67.9	67.9	68.0	69.5
>= 6000	12.2	58.3	61.1	64.1	65.7	66.2	67.2	67.5	67.5	67.5	67.9	67.9	67.9	67.9	68.0	68.3	68.3	68.4	69.8
>= 5000	12.3	58.9	61.8	64.8	66.5	66.9	67.9	68.3	68.3	68.3	68.6	68.6	68.6	68.6	68.7	69.0	69.0	69.1	70.5
>= 4500	12.3	59.9	62.8	65.7	67.4	67.9	68.9	69.2	69.2	69.2	69.6	69.6	69.6	69.6	69.7	69.9	69.9	70.1	71.5
>= 4000	12.7	61.4	64.3	67.3	69.0	69.5	70.4	70.8	70.8	70.8	71.1	71.1	71.1	71.1	71.3	71.5	71.5	71.6	73.2
>= 3500	13.1	63.6	66.5	69.5	71.1	71.6	72.7	73.1	73.1	73.1	73.4	73.4	73.4	73.4	73.5	73.8	73.8	73.9	75.4
>= 3000	13.8	67.9	71.1	74.3	76.2	76.6	77.7	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.6	78.8	78.8	78.9	80.5
>= 2500	14.1	70.4	73.8	77.2	79.4	80.0	81.2	81.6	81.6	81.6	81.9	81.9	81.9	81.9	82.0	82.3	82.3	82.4	84.0
>= 2000	14.5	72.9	76.5	80.2	82.5	83.1	84.3	84.8	84.8	84.8	85.3	85.3	85.3	85.3	85.4	85.6	85.6	85.7	87.4
>= 1800	14.6	73.4	77.0	80.8	83.1	83.7	84.9	85.4	85.4	85.4	85.9	85.9	85.9	85.9	86.0	86.2	86.2	86.3	88.0
>= 1500	15.1	75.7	79.5	83.4	85.9	86.6	87.8	88.4	88.4	88.4	88.5	88.5	88.5	88.5	89.1	89.5	89.5	89.6	91.3
>= 1200	15.1	76.0	80.0	84.1	86.6	87.3	88.5	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.9	90.2	90.2	90.3	92.0
>= 1000	15.2	76.9	81.2	85.4	88.0	89.0	90.3	91.0	91.0	91.0	91.6	91.6	91.6	91.7	91.9	92.1	92.2	92.3	94.1
>= 900	15.2	76.9	81.2	85.5	88.1	89.1	90.4	91.1	91.1	91.1	91.7	91.7	91.7	91.9	92.0	92.2	92.3	92.5	94.3
>= 800	15.2	77.2	81.9	86.2	89.0	89.9	91.3	92.0	92.0	92.0	92.7	92.7	92.7	92.8	92.9	93.2	93.3	93.5	95.3
>= 700	15.2	77.2	81.9	86.3	89.1	90.2	91.6	92.5	92.5	92.5	93.2	93.2	93.2	93.3	93.4	93.7	93.8	94.0	95.8
>= 600	15.2	77.2	81.9	86.3	89.1	90.2	91.7	92.6	92.6	92.6	93.3	93.3	93.3	93.4	93.5	93.8	93.9	94.1	95.9
>= 500	15.2	77.2	81.9	86.3	89.3	90.4	92.1	92.9	92.9	92.9	93.7	93.7	93.7	93.8	93.9	94.1	94.4	94.6	96.4
>= 400	15.2	77.2	81.9	86.5	89.6	90.7	92.3	93.2	93.2	93.2	94.0	94.0	94.0	94.1	94.3	94.5	94.9	95.1	96.9
>= 300	15.2	77.2	81.9	86.6	89.7	90.8	92.6	93.4	93.4	93.4	94.4	94.4	94.4	94.5	94.6	94.9	95.2	95.4	97.4
>= 200	15.2	77.2	81.9	86.6	89.7	90.8	92.7	93.5	93.5	93.5	94.7	94.7	94.7	94.9	95.0	95.2	95.7	95.9	98.3
>= 100	15.2	77.2	81.9	86.6	89.7	90.8	92.7	93.5	93.5	93.5	94.7	94.7	94.7	94.9	95.0	95.2	95.8	96.3	99.6
>= 0	15.2	77.2	81.9	86.6	89.7	90.8	92.7	93.5	93.5	93.5	94.7	94.7	94.7	94.9	95.0	95.2	95.8	96.3	100.0

TOTAL NO. OF OBS : 835

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1 1/4	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.2	50.1	51.8	53.0	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
>=20000	14.5	53.4	55.3	56.5	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
>=18000	14.5	54.5	56.4	57.6	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
>=16000	14.5	54.5	56.4	57.6	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
>=14000	14.6	54.6	56.5	57.7	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
>=12000	14.9	55.5	57.6	58.8	59.0	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
>=10000	15.4	57.5	59.6	60.8	61.1	61.1	61.2	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4
>=9000	15.7	59.0	61.3	62.5	62.8	62.8	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
>=8000	17.0	64.2	66.5	67.7	68.1	68.1	68.2	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4
>=7000	17.6	67.1	69.8	71.0	71.3	71.3	71.7	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
>=6000	17.7	67.6	70.2	71.4	71.8	71.8	72.2	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
>=5000	18.2	68.7	71.7	72.9	73.3	73.3	73.6	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9
>=4500	18.4	69.2	72.2	73.4	73.7	73.7	74.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3
>=4000	18.8	71.1	74.5	75.8	76.1	76.1	76.5	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7
>=3500	18.9	72.7	76.1	77.5	77.8	77.8	78.2	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>=3000	19.5	76.3	80.0	81.4	81.9	81.9	82.4	82.5	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7
>=2500	20.0	79.0	83.3	84.8	85.4	85.4	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
>=2000	20.4	82.0	86.7	88.4	89.0	89.2	89.6	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
>=1800	20.4	82.3	87.0	88.7	89.3	89.4	89.9	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2
>=1500	20.7	84.3	89.3	91.0	91.6	91.7	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=1200	20.8	85.2	90.2	91.9	92.5	92.7	93.1	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
>=1000	21.1	86.1	91.4	93.5	94.1	94.2	94.7	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.4
>=900	21.2	86.3	91.6	93.6	94.3	94.5	94.9	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.7
>=800	21.2	86.7	92.0	94.3	95.1	95.2	95.9	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.7
>=700	21.2	86.7	92.4	94.7	95.4	95.5	96.3	96.6	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.1
>=600	21.2	86.9	92.8	95.1	95.8	95.9	96.7	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.6
>=500	21.2	87.0	92.9	95.2	95.9	96.0	97.1	97.5	97.5	98.0	98.0	98.0	98.1	98.1	98.1	98.2
>=400	21.2	87.0	92.9	95.4	96.1	96.4	97.5	98.0	98.0	98.4	98.4	98.4	98.7	98.7	98.8	98.9
>=300	21.2	87.0	92.9	95.5	96.3	96.5	97.6	98.2	98.2	98.7	98.8	98.8	99.0	99.0	99.2	99.3
>=200	21.2	87.0	92.9	95.5	96.3	96.5	97.6	98.4	98.4	99.0	99.2	99.2	99.5	99.5	99.6	99.9
>=100	21.2	87.0	92.9	95.5	96.3	96.5	97.6	98.4	98.4	99.0	99.2	99.2	99.5	99.6	99.8	100.0
>= 0	21.2	87.0	92.9	95.5	96.3	96.5	97.6	98.4	98.4	99.0	99.2	99.2	99.5	99.6	99.8	100.0

TOTAL NO. OF OBS : 870

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	17.2	52.9	54.3	54.5	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
>=20000	17.3	57.4	58.8	59.0	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
>=18000	17.3	58.2	59.5	59.7	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
>=16000	17.4	58.4	59.7	60.0	60.3	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
>=14000	17.5	58.6	60.0	60.2	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
>=12000	17.6	59.5	60.8	61.1	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
>=10000	18.1	61.7	63.0	63.3	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
>= 9000	18.4	63.0	64.4	64.6	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
>= 8000	19.3	66.7	68.0	68.2	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
>= 7000	20.1	69.2	70.7	70.9	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
>= 6000	20.2	69.7	71.2	71.4	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
>= 5000	20.2	70.4	71.9	72.1	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
>= 4500	20.6	70.9	72.4	72.6	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
>= 4000	21.0	74.0	75.4	75.7	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
>= 3500	21.4	75.2	76.9	77.3	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
>= 3000	21.9	78.8	80.5	80.9	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>= 2500	22.5	82.5	84.4	84.8	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
>= 2000	23.4	85.6	87.7	88.2	88.7	88.8	88.9	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2
>= 1800	23.4	86.0	88.1	88.6	89.1	89.3	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
>= 1500	23.7	88.1	90.4	91.0	91.7	92.0	92.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 1200	23.8	88.8	91.2	92.0	92.8	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
>= 1000	24.0	90.1	92.6	93.4	94.4	94.6	94.8	94.9	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 900	24.0	90.1	92.6	93.4	94.4	94.6	94.8	95.0	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>= 800	24.0	90.3	92.7	93.9	95.1	95.4	95.6	95.9	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 700	24.0	90.3	92.7	94.2	95.4	95.6	96.1	96.4	96.5	97.2	97.3	97.3	97.3	97.3	97.3	97.3
>= 600	24.0	90.4	92.8	94.3	95.5	95.9	96.4	96.6	96.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
>= 500	24.0	90.4	92.8	94.3	95.7	96.1	96.8	97.2	97.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
>= 400	24.0	90.4	92.8	94.3	96.1	96.5	97.2	97.6	97.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0
>= 300	24.0	90.4	92.8	94.3	96.2	96.6	97.3	97.7	97.8	98.9	99.3	99.3	99.4	99.4	99.4	99.4
>= 200	24.0	90.4	92.8	94.3	96.4	96.7	97.6	97.9	98.1	99.1	99.5	99.5	99.9	99.9	99.9	99.9
>= 100	24.0	90.4	92.8	94.3	96.4	96.7	97.6	97.9	98.1	99.1	99.5	99.5	99.9	99.9	99.9	99.9
>= 0	24.0	90.4	92.8	94.3	96.4	96.7	97.6	97.9	98.1	99.1	99.5	99.5	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 822

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1
UNLIMIT	13.4	52.4	53.8	55.0	55.2	55.5	55.5	55.9	55.9	55.9
>=20000	13.5	55.0	56.5	57.7	57.9	58.3	58.3	58.6	58.6	58.6
>=18000	13.6	55.6	57.1	58.3	58.5	58.9	58.9	59.2	59.2	59.2
>=16000	13.6	55.7	57.2	58.4	58.6	59.0	59.0	59.3	59.3	59.3
>=14000	13.8	56.1	57.5	58.7	59.0	59.3	59.3	59.7	59.7	59.7
>=12000	13.9	56.7	58.1	59.3	59.6	60.1	60.1	60.4	60.4	60.4
>=10000	14.5	58.5	60.0	61.3	61.5	62.0	62.1	62.5	62.5	62.5
>= 9000	14.7	59.8	61.3	62.6	62.8	63.3	63.4	63.8	63.8	63.9
>= 8000	15.6	64.7	66.1	67.4	67.7	68.2	68.3	68.6	68.6	68.8
>= 7000	16.6	68.0	69.5	70.8	71.2	71.7	71.8	72.1	72.1	72.3
>= 6000	16.6	68.3	69.7	71.0	71.4	71.9	72.0	72.4	72.4	72.5
>= 5000	17.0	69.8	71.5	73.0	73.3	73.8	73.9	74.3	74.3	74.4
>= 4500	17.0	70.3	72.0	73.6	73.9	74.4	74.5	74.9	74.9	75.0
>= 4000	17.7	72.9	74.7	76.4	76.7	77.2	77.3	77.7	77.7	77.9
>= 3500	17.9	75.0	76.8	78.5	78.9	79.4	79.5	79.9	80.1	80.1
>= 3000	18.2	79.0	80.9	82.6	83.0	83.5	83.6	84.0	84.2	84.2
>= 2500	18.6	81.8	83.8	85.5	86.0	86.5	86.6	87.0	87.2	87.2
>= 2000	18.8	83.7	86.0	88.2	88.7	89.1	89.4	89.7	90.0	90.0
>= 1800	18.8	84.0	86.2	88.4	88.9	89.4	89.6	90.0	90.2	90.2
>= 1500	19.2	85.4	88.2	90.5	91.0	91.6	91.8	92.2	92.4	92.4
>= 1200	19.3	86.0	88.8	91.3	91.8	92.4	92.6	93.0	93.2	93.2
>= 1000	19.7	87.3	90.6	93.2	94.0	94.6	94.8	95.2	95.3	95.5
>= 900	19.7	87.3	90.7	93.4	94.1	94.7	94.9	95.3	95.4	95.7
>= 800	19.7	87.7	91.2	93.8	94.7	95.3	95.5	96.0	96.1	96.4
>= 700	19.7	87.7	91.2	94.0	94.8	95.4	95.8	96.3	96.5	96.7
>= 600	19.7	88.1	91.7	94.5	95.3	95.9	96.3	96.7	97.1	97.6
>= 500	19.7	88.2	91.9	94.8	95.7	96.4	97.0	97.5	97.8	98.4
>= 400	19.7	88.2	91.9	94.8	95.9	96.6	97.3	97.8	98.2	98.9
>= 300	19.7	88.2	91.9	94.8	95.9	96.7	97.5	97.9	98.3	99.0
>= 200	19.7	88.2	91.9	94.8	95.9	96.7	97.5	97.9	98.3	99.0
>= 100	19.7	88.2	91.9	94.8	95.9	96.7	97.5	97.9	98.3	99.4
>= 0	19.7	88.2	91.9	94.8	95.9	96.7	97.5	97.9	98.3	99.4

TOTAL NO. OF OBS : 829

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	1/2	>=5/16	1/4	>=0
UNLIMIT	11.2	57.7	59.5	60.3	60.6	60.6	60.8	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.2	61.2	61.2	61.4
>=20000	11.2	60.8	62.7	63.7	63.9	63.9	64.1	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.8
>=18000	11.2	61.0	62.9	63.9	64.1	64.1	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.8	64.8	64.8	65.1
>=16000	11.3	61.2	63.1	64.0	64.3	64.3	64.5	64.6	64.6	64.7	64.7	64.7	64.7	64.7	65.0	65.0	65.0	65.2
>=14000	11.4	61.4	63.3	64.3	64.5	64.5	64.7	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.2	65.2	65.2	65.4
>=12000	11.6	61.9	63.8	64.7	65.0	65.0	65.2	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.7	65.7	65.7	65.9
>=10000	11.8	63.9	66.0	67.0	67.2	67.2	67.5	67.6	67.6	67.7	67.7	67.7	67.7	67.7	67.9	67.9	67.9	68.2
>= 9000	11.9	64.6	66.9	67.8	68.1	68.1	68.3	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.8	68.8	68.8	69.0
>= 8000	12.5	68.8	71.3	72.2	72.4	72.4	72.7	72.8	72.8	72.9	72.9	72.9	72.9	72.9	73.2	73.2	73.2	73.4
>= 7000	13.3	71.9	74.3	75.4	75.7	75.7	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.4	76.4	76.4	76.6
>= 6000	13.4	72.1	74.6	75.7	75.9	75.9	76.1	76.2	76.2	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6	76.8
>= 5000	13.5	73.6	76.1	77.2	77.4	77.4	77.7	77.8	77.8	77.9	77.9	77.9	77.9	77.9	78.1	78.1	78.1	78.4
>= 4500	13.5	74.5	77.0	78.1	78.4	78.4	78.6	78.7	78.7	78.9	78.9	78.9	78.9	78.9	79.1	79.1	79.1	79.3
>= 4000	13.7	76.6	79.2	80.5	80.8	80.8	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.5	81.5	81.5	81.7
>= 3500	13.7	77.2	79.8	81.1	81.4	81.4	81.6	81.7	81.7	81.8	81.8	81.8	81.8	81.8	82.1	82.1	82.1	82.3
>= 3000	13.8	80.4	83.3	84.6	84.8	84.8	85.0	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.5	85.5	85.5	85.7
>= 2500	14.1	83.4	86.3	87.6	87.9	87.9	88.1	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.6	88.6	88.6	88.8
>= 2000	14.4	85.4	88.4	89.9	90.1	90.1	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.9	90.9	90.9	91.1
>= 1800	14.5	85.9	88.8	90.4	90.6	90.6	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.3	91.3	91.3	91.6
>= 1500	14.6	88.1	91.4	93.2	93.5	93.5	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	94.2	94.2	94.2	94.4
>= 1200	14.7	88.4	92.2	94.1	94.3	94.3	94.5	94.7	94.7	94.8	94.8	94.8	94.8	94.8	95.0	95.0	95.0	95.2
>= 1000	14.8	89.4	93.5	95.4	95.7	95.7	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.7
>= 900	14.8	89.7	93.7	95.6	96.0	96.0	96.3	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	97.0
>= 800	14.8	90.1	94.2	96.1	96.4	96.4	96.8	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.4	97.4	97.4	97.6
>= 700	14.8	90.4	94.5	96.4	96.9	96.9	97.4	97.5	97.5	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.0	98.2
>= 600	14.8	90.5	94.7	96.6	97.0	97.0	97.5	97.6	97.6	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.3
>= 500	14.8	90.6	94.8	96.7	97.1	97.1	97.7	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.6
>= 400	14.8	90.6	94.8	96.7	97.3	97.3	97.9	98.0	98.0	98.2	98.2	98.2	98.2	98.2	98.5	98.5	98.5	98.7
>= 300	14.8	90.6	94.8	96.7	97.3	97.3	97.9	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	99.0
>= 200	14.8	90.6	94.8	96.7	97.3	97.3	97.9	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.5
>= 100	14.8	90.6	94.8	96.7	97.3	97.3	97.9	98.1	98.1	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2	99.8
>= 0	14.8	90.6	94.8	96.7	97.3	97.3	97.9	98.1	98.1	98.8	98.8	98.8	98.8	98.8	99.3	99.3	99.3	100.0

TOTAL NO. OF OBS : 842

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JAN  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	12.2	53.0	54.9	56.3	56.8	56.9	57.2	57.4	57.4	57.4	57.4	57.5	57.6	57.6	57.7	57.8	57.9	58.4
>=20000	12.3	55.6	57.6	59.1	59.6	59.8	60.1	60.2	60.3	60.3	60.3	60.4	60.5	60.5	60.6	60.7	60.8	61.4
>=18000	12.3	56.0	58.1	59.6	60.1	60.2	60.5	60.7	60.7	60.7	60.7	60.9	60.9	61.0	61.1	61.1	61.3	61.8
>=16000	12.3	56.2	58.2	59.7	60.2	60.4	60.6	60.8	60.8	60.8	60.8	61.0	61.1	61.1	61.2	61.3	61.4	62.0
>=14000	12.4	56.3	58.4	59.9	60.4	60.5	60.8	61.0	61.0	61.0	61.0	61.2	61.3	61.3	61.4	61.5	61.6	62.2
>=12000	12.6	57.0	59.1	60.5	61.1	61.2	61.5	61.7	61.7	61.7	61.7	61.9	62.0	62.0	62.1	62.2	62.3	62.9
>=10000	13.0	58.8	60.9	62.4	62.9	63.1	63.4	63.6	63.6	63.6	63.6	63.8	63.9	63.9	64.1	64.1	64.3	64.9
>= 9000	13.2	60.0	62.2	63.7	64.2	64.4	64.7	64.9	64.9	64.9	64.9	65.1	65.2	65.2	65.3	65.4	65.6	66.1
>= 8000	13.8	64.3	66.5	68.0	68.6	68.8	69.1	69.3	69.3	69.3	69.3	69.6	69.6	69.6	69.8	69.8	70.0	70.6
>= 7000	14.4	66.8	69.1	70.7	71.3	71.5	71.9	72.1	72.1	72.1	72.1	72.3	72.4	72.4	72.5	72.6	72.7	73.3
>= 6000	14.4	67.2	69.5	71.1	71.7	71.9	72.3	72.5	72.5	72.5	72.5	72.7	72.8	72.8	72.9	73.0	73.2	73.7
>= 5000	14.6	68.3	70.8	72.4	73.1	73.3	73.6	73.8	73.9	73.9	73.9	74.1	74.1	74.2	74.3	74.4	74.5	75.1
>= 4500	14.7	68.9	71.5	73.1	73.8	74.0	74.3	74.5	74.5	74.5	74.5	74.8	74.8	74.8	75.0	75.0	75.2	75.8
>= 4000	15.0	71.1	73.7	75.4	76.1	76.3	76.6	76.8	76.9	76.9	76.9	77.1	77.2	77.2	77.3	77.4	77.5	78.1
>= 3500	15.2	72.5	75.2	76.9	77.6	77.8	78.2	78.4	78.4	78.4	78.4	78.6	78.7	78.7	78.8	78.9	79.1	79.7
>= 3000	15.6	76.0	78.8	80.6	81.3	81.5	81.9	82.2	82.2	82.2	82.2	82.4	82.5	82.5	82.6	82.7	82.9	83.5
>= 2500	16.0	78.8	82.0	84.0	84.8	85.0	85.4	85.7	85.7	85.7	85.7	85.9	86.0	86.0	86.2	86.3	86.4	87.0
>= 2000	16.3	81.2	84.6	86.9	87.7	88.0	88.4	88.7	88.7	88.7	88.7	89.0	89.0	89.1	89.2	89.3	89.5	90.1
>= 1800	16.3	81.4	84.9	87.1	88.0	88.2	88.7	89.0	89.0	89.0	89.0	89.3	89.3	89.4	89.5	89.6	89.8	90.4
>= 1500	16.6	83.2	86.9	89.4	90.3	90.6	91.1	91.4	91.4	91.4	91.4	91.7	91.8	91.8	92.0	92.1	92.2	92.8
>= 1200	16.7	83.7	87.7	90.3	91.3	91.6	92.1	92.4	92.4	92.4	92.4	92.7	92.8	92.8	93.0	93.0	93.2	93.8
>= 1000	16.8	84.7	88.9	91.7	92.7	93.1	93.6	93.9	93.9	93.9	93.9	94.3	94.3	94.3	94.5	94.6	94.8	95.4
>= 900	16.8	84.8	89.0	91.8	92.9	93.2	93.7	94.0	94.1	94.1	94.1	94.4	94.5	94.5	94.7	94.8	95.0	95.6
>= 800	16.8	85.1	89.4	92.3	93.5	93.8	94.4	94.7	94.8	94.8	94.8	95.2	95.2	95.3	95.4	95.5	95.7	96.4
>= 700	16.8	85.2	89.6	92.6	93.7	94.1	94.8	95.1	95.2	95.2	95.2	95.6	95.7	95.7	95.9	96.0	96.2	96.9
>= 600	16.8	85.3	89.8	92.7	93.9	94.3	95.0	95.4	95.5	95.5	95.5	96.0	96.1	96.1	96.3	96.4	96.6	97.2
>= 500	16.8	85.4	89.9	92.9	94.2	94.5	95.4	95.8	95.9	95.9	95.9	96.4	96.5	96.5	96.7	96.9	97.0	97.7
>= 400	16.8	85.4	89.9	93.0	94.3	94.7	95.6	96.0	96.1	96.1	96.1	96.7	96.8	96.8	97.0	97.2	97.4	98.1
>= 300	16.8	85.5	90.0	93.1	94.5	94.9	95.8	96.2	96.3	96.3	96.3	97.0	97.1	97.1	97.4	97.5	97.7	98.5
>= 200	16.8	85.5	90.0	93.1	94.5	94.9	95.9	96.4	96.5	96.5	96.5	97.2	97.4	97.4	97.7	97.9	98.1	99.0
>= 100	16.8	85.5	90.0	93.1	94.6	95.0	95.9	96.5	96.6	96.6	96.6	97.3	97.5	97.6	97.9	98.1	98.4	99.6
>= 0	16.8	85.5	90.0	93.1	94.6	95.0	95.9	96.5	96.6	96.6	96.6	97.3	97.6	97.6	97.9	98.1	98.4	100.0

TOTAL NO. OF OBS : 6707



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	DIR.	SPEED (KNOTS)											TOTAL	MEAN
		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	1.8	1.6	1.1	.1	.0	.0	.0	.0	.0	.0	.0	4.7	4.8	
NNE	1.4	1.6	1.1	.1	.0	.0	.0	.0	.0	.0	.0	4.3	5.2	
NE	1.8	1.8	.9	.3	.0	.0	.0	.0	.0	.0	.0	4.7	4.8	
ENE	3.3	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	3.3	
E	4.6	7.1	1.5	.8	.1	.1	.1	.0	.0	.0	.0	14.3	5.1	
ESE	2.0	2.8	2.3	1.0	.4	.0	.0	.0	.0	.0	.0	8.5	6.8	
SE	.6	1.1	1.6	1.1	.3	.0	.0	.0	.0	.0	.0	4.8	8.4	
SSE	.1	.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	1.5	8.1	
S	.9	1.1	1.3	.9	.5	.0	.0	.0	.0	.0	.0	4.7	8.5	
SSW	.5	.9	.6	1.0	.0	.0	.0	.0	.0	.0	.0	3.0	8.0	
SW	.8	1.3	1.8	.6	.1	.0	.0	.0	.0	.0	.0	4.6	7.5	
WSW	.6	.9	1.6	1.6	.6	.0	.0	.0	.0	.0	.0	5.4	9.8	
W	1.0	1.6	2.0	1.8	.4	.0	.0	.0	.0	.0	.0	6.8	8.3	
WNW	.4	2.0	2.3	.9	.3	.1	.0	.0	.0	.0	.0	5.9	8.1	
NW	1.5	2.8	2.4	.5	.1	.0	.0	.0	.0	.0	.0	7.3	6.4	
NNW	1.9	2.4	.9	.8	.1	.0	.0	.0	.0	.0	.0	6.1	5.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0	
ALL	23.2	32.4	22.5	11.6	2.9	.3	.1	.0	.0	.0	.0	100.0	6.1	

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)								TOTAL	MEAN
																%	WIND SPEED	
																>=56		

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)											TOTAL	MEAN	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56			%
DIR.														
N	1.0	3.5	.9	.1	.0	.0	.0	.0	.0	.0	.0	5.6	5.0	
NNE	1.8	4.1	3.7	.6	.0	.0	.0	.0	.0	.0	.0	10.1	6.2	
NE	2.0	5.8	2.0	.6	.0	.0	.0	.0	.0	.0	.0	10.5	5.7	
ENE	3.0	5.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	9.0	4.2	
E	6.5	6.8	1.3	.4	.0	.3	.1	.0	.0	.0	.0	15.3	4.5	
ESE	1.4	.6	.9	1.0	.1	.0	.0	.0	.0	.0	.0	4.1	7.3	
SE	.1	.6	.6	.9	.1	.0	.0	.0	.0	.0	.0	2.4	9.3	
SSE	.1	1.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	2.7	8.6	
S	.6	1.0	.8	1.4	.1	.0	.0	.0	.0	.0	.0	3.9	8.5	
SSW	.0	.6	.8	.9	.3	.0	.0	.0	.0	.0	.0	2.5	10.4	
SW	.5	.9	1.6	1.0	.1	.1	.0	.0	.0	.0	.0	4.3	9.0	
WSW	.1	.9	1.0	1.4	.6	.0	.0	.0	.0	.0	.0	4.1	10.7	
W	.6	.9	2.4	1.5	.5	.3	.0	.0	.0	.0	.0	6.2	9.9	
WNW	.1	.9	1.8	.8	.0	.0	.0	.0	.0	.0	.0	3.5	8.4	
NW	.1	1.9	2.0	.6	.3	.0	.0	.0	.0	.0	.0	4.9	7.9	
NNW	1.0	1.9	.1	.4	.1	.0	.0	.0	.0	.0	.0	3.5	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	
ALL	19.1	36.6	21.5	12.4	2.3	.6	.1	.0	.0	.0	.0	100.0	6.2	

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL	MEAN
DIR.		1-3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%					
N		1.3	2.9		1.3	.4	.0	.0	.0	.0	.0	.0	.0	5.8	5.6				
NNE		1.4	2.7		3.7	1.5	.0	.1	.0	.0	.0	.0	.0	9.4	7.3				
NE		2.2	5.2		3.3	.8	.3	.0	.0	.0	.0	.0	.0	11.6	6.2				
ENE		2.5	5.2		1.3	.4	.0	.0	.0	.0	.0	.0	.0	9.4	4.9				
E		4.4	4.9		1.3	.8	.1	.1	.0	.0	.0	.0	.0	11.6	5.2				
ESE		1.4	1.1		1.6	1.1	.0	.0	.1	.0	.0	.0	.0	5.4	7.7				
SE		.9	.9		1.0	1.1	.0	.1	.0	.0	.0	.0	.0	4.1	8.4				
SSE		.0	.8		.9	.9	.3	.0	.0	.0	.0	.0	.0	2.8	9.9				
S		.4	.6		1.5	1.4	.1	.1	.0	.0	.0	.0	.0	4.2	9.9				
SSW		.1	.8		1.3	.9	.1	.1	.0	.0	.0	.0	.0	3.3	9.6				
SW		.3	1.0		1.4	1.5	.1	.3	.0	.0	.0	.0	.0	4.6	9.9				
WSW		.3	.9		1.0	1.1	.5	.0	.0	.0	.0	.0	.0	3.8	9.8				
W		.5	2.0		1.5	2.5	.3	.1	.0	.0	.0	.0	.0	7.0	9.4				
WNW		.3	1.0		.9	1.1	.0	.0	.0	.0	.0	.0	.0	3.3	8.5				
NW		.6	.8		2.5	1.4	.5	.1	.0	.0	.0	.0	.0	5.9	9.8				
NNW		.6	.5		1.3	.5	.0	.0	.0	.0	.0	.0	.0	2.9	7.3				
VAR		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0				
ALL		17.1	31.3		25.7	17.5	2.3	1.1	.1	.0	.0	.0	.0	100.0	7.1				

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED		
N		.6		1.9		1.4		1.0		.0		.0	.0	.0	.0	.0	4.9		7.3		
NNE		1.0		1.9		3.5		1.1		.5		.0	.0	.0	.0	.0	8.1		8.3		
NE		.3		2.8		2.3		1.4		.1		.0	.0	.0	.0	.0	6.8		8.1		
ENE		.8		1.9		1.5		.8		.0		.0	.0	.0	.0	.0	4.9		6.7		
E		1.0		1.6		1.4		1.8		.6		.1	.1	.0	.0	.0	6.7		9.4		
ESE		.4		1.1		1.9		2.3		.6		.1	.1	.0	.0	.0	6.6		10.8		
SE		.1		.9		1.0		2.0		.5		.1	.0	.0	.0	.0	4.7		11.5		
SSE		.6		1.5		2.2		.8		.3		.0	.0	.0	.0	.0	5.3		8.0		
S		1.3		3.0		2.4		1.6		.0		.3	.0	.0	.0	.0	7.6		7.6		
SSW		.4		.9		2.5		1.0		.1		.0	.0	.0	.0	.0	4.9		8.6		
SW		.1		.5		1.5		3.3		.8		.1	.0	.0	.0	.0	6.3		12.5		
WSW		.0		.9		1.8		1.3		.1		.0	.0	.0	.0	.0	4.1		9.4		
W		.9		2.5		3.5		4.1		.6		.1	.0	.0	.0	.0	11.8		9.6		
WNW		.3		.9		2.4		2.4		.8		.0	.0	.0	.0	.0	6.7		10.6		
NW		.1		.8		.9		.6		.6		.3	.0	.0	.0	.0	3.3		11.3		
NNW		.4		.8		1.4		.8		.0		.1	.0	.0	.0	.0	3.4		8.2		
VAR		.0		.0		.0		.0		.0		.0	.0	.0	.0	.0	.0		.0		
CLM		.0		.0		.0		.0		.0		.0	.0	.0	.0	.0	2.8		.0		
ALL		8.2		23.9		31.6		26.2		5.7		1.3	.3	.0	.0	.0	100.0		9.0		

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.9	1.4	1.8	.5	.1	.0	.0	.0	.0	.0	.0	4.7	7.0
NNE	.3	1.1	1.9	1.5	.0	.1	.0	.0	.0	.0	.0	4.9	9.4
NE	.6	1.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	4.6	7.6
ENE	.4	1.0	1.1	.1	.1	.0	.0	.0	.0	.0	.0	2.8	7.1
E	.1	.9	.8	1.5	.1	.1	.0	.0	.0	.0	.0	3.5	10.6
ESE	.1	.4	1.9	3.0	.8	.4	.0	.0	.0	.0	.0	6.6	12.5
SE	.3	.3	1.3	2.5	.4	.0	.0	.0	.0	.0	.0	4.7	11.6
SSE	.3	.5	1.5	.8	.0	.0	.0	.0	.0	.0	.0	3.0	8.3
S	.6	4.1	2.7	1.6	.1	.0	.0	.0	.0	.0	.0	9.1	7.4
SSW	.3	1.8	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	5.1	8.2
SW	.5	2.0	2.7	2.3	.4	.4	.0	.0	.0	.0	.0	8.2	10.0
WSW	.3	1.6	2.2	3.4	.8	.1	.0	.0	.0	.0	.0	8.4	10.9
W	.6	3.8	7.2	5.2	1.0	.1	.0	.0	.0	.0	.0	18.0	9.7
WNW	.5	1.4	3.7	2.8	.6	.0	.0	.0	.0	.0	.0	9.0	9.7
NW	.3	.4	1.4	1.1	.1	.1	.0	.0	.0	.0	.0	3.4	10.6
NNW	.0	.5	1.3	.3	.3	.0	.0	.0	.0	.0	.0	2.3	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	6.0	22.8	34.3	29.0	4.8	1.4	.0	.0	.0	.0	.0	100.0	9.4

TOTAL NO. OF OBS : 789

NOTES :  
 \* = PERCENT < .05

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
		SPEED (KNOTS)														
N	.9	1.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.2
NNE	.9	1.9	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.8
NE	.9	.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.4
ENE	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.8
E	.5	1.1	1.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	8.7
ESE	.5	2.4	2.5	3.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.0	9.3
SE	.5	2.0	1.6	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.9
SSE	.3	.5	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.3
S	1.9	1.6	2.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.6
SSW	1.1	1.3	1.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	7.9
SW	1.6	1.4	2.7	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	8.1
WSW	1.3	2.7	3.2	2.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.6	8.2
W	3.0	4.6	4.4	4.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.8	7.9
WNW	3.0	3.2	3.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.4	6.2
NW	1.5	2.0	.8	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.7
MNW	.6	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	.0
ALL	19.0	28.4	26.8	18.5	2.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.1

TOTAL NO. OF OBS : 790

NOTES :  
\* = PERCENT < .05

Q13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.																%	SPEED
N		1.9		2.5		.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.0
NNE		.9		.9		1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.5
NE		.8		.6		.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.7
ENE		2.0		.8		.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.6
E		2.9		3.9		2.0	1.4	.4	.0	.0	.0	.0	.0	.0	.0	10.6	6.2
ESE		1.6		2.9		2.9	1.5	.3	.1	.0	.0	.0	.0	.0	.0	9.4	7.4
SE		.9		1.9		1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.6
SSE		.6		.8		.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.5
S		1.0		1.8		1.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	5.7	7.2
SSW		1.0		.4		1.1	1.4	.1	.0	.0	.0	.0	.0	.0	.0	4.1	8.4
SW		.8		.8		1.5	1.3	.4	.0	.0	.0	.0	.0	.0	.0	4.7	9.5
WSW		.5		2.4		2.7	1.3	.4	.0	.0	.0	.0	.0	.0	.0	7.2	8.4
W		1.5		2.7		3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	8.2
WNW		1.6		2.2		2.2	1.3	.3	.0	.0	.0	.0	.0	.0	.0	7.5	7.1
NW		1.3		2.5		1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	5.9	6.1
NNW		1.5		2.7		.4	.5	.0	.1	.0	.0	.0	.0	.0	.0	5.2	5.8
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	.0
ALL		20.9		29.6		23.5	14.1	1.9	.3	.0	.0	.0	.0	.0	.0	100.0	6.2

TOTAL NO. OF OBS : 790

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN	
DIR.		SPEED (KNOTS)															%	SPEED
N	1.3	2.2	1.1	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.5	
NNE	1.0	2.2	2.4	.7	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	7.0	
NE	1.4	2.8	1.5	.6	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.0	
ENE	1.9	2.8	.7	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	4.6	
E	3.1	4.1	1.3	1.0	.2	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	10.0	5.9	
ESE	1.1	1.7	2.0	1.8	.3	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	6.9	8.6	
SE	.4	1.1	1.2	1.3	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9.0	
SSE	.3	.8	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	8.1	
S	.9	1.7	1.7	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.9	
SSW	.5	.9	1.4	1.0	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.6	
SW	.6	1.2	1.8	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	9.5	
WSW	.4	1.4	1.9	1.7	.5	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	9.5	
W	1.1	2.5	3.2	3.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4	8.9	
WNW	.8	1.6	2.2	1.4	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	8.3	
NW	.8	1.7	1.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	7.8	
NNW	.9	1.6	.8	.5	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	
ALL	16.7	30.2	26.0	17.6	3.0	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.2	

TOTAL NO. OF OBS : 6319

NOTES :  
 \* = PERCENT < .05

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.1	59.5	60.6	61.3	61.7	61.8	62.1	62.2	62.3	62.3	62.5	62.5	62.5	62.5	62.6	63.1
>=20000	13.1	61.4	62.6	63.2	63.6	63.8	64.0	64.2	64.3	64.3	64.4	64.4	64.5	64.5	64.7	65.2
>=18000	13.1	62.1	63.2	63.9	64.3	64.4	64.7	64.8	64.9	64.9	65.1	65.1	65.2	65.2	65.3	65.8
>=16000	13.1	62.1	63.2	63.9	64.3	64.4	64.7	64.8	64.9	64.9	65.1	65.1	65.2	65.2	65.3	65.8
>=14000	13.1	62.2	63.6	64.3	64.7	64.8	65.1	65.2	65.3	65.3	65.5	65.5	65.6	65.6	65.7	66.2
>=12000	13.1	62.6	64.0	64.8	65.2	65.3	65.6	65.7	65.8	65.8	66.0	66.0	66.1	66.1	66.2	66.8
>=10000	13.2	63.5	65.1	65.8	66.2	66.4	66.6	66.8	66.9	67.0	67.1	67.1	67.3	67.3	67.4	67.9
>=9000	13.2	64.0	65.6	66.4	66.8	66.9	67.1	67.3	67.4	67.5	67.7	67.7	67.8	67.8	67.9	68.4
>=8000	13.8	67.3	69.0	69.9	70.3	70.4	70.6	70.8	70.9	71.0	71.2	71.3	71.3	71.3	71.4	71.9
>=7000	13.8	69.0	70.8	71.9	72.3	72.5	72.7	72.9	73.0	73.1	73.2	73.2	73.4	73.4	73.5	74.0
>=6000	13.8	69.5	71.3	72.6	73.0	73.1	73.4	73.5	73.6	73.8	73.9	73.9	74.0	74.0	74.2	74.7
>=5000	13.9	71.7	73.5	74.8	75.2	75.3	75.6	75.7	75.8	76.0	76.1	76.1	76.2	76.2	76.4	76.9
>=4500	13.9	72.7	74.7	76.0	76.4	76.5	76.8	76.9	77.0	77.1	77.3	77.3	77.4	77.4	77.5	78.1
>=4000	14.3	75.7	77.7	79.0	79.4	79.5	79.7	79.9	80.0	80.1	80.3	80.3	80.4	80.4	80.5	81.0
>=3500	14.3	77.5	79.5	80.8	81.2	81.3	81.6	81.7	81.8	81.9	82.1	82.1	82.2	82.2	82.3	82.9
>=3000	14.7	80.4	82.5	83.9	84.3	84.4	84.7	84.8	84.9	85.1	85.2	85.2	85.3	85.3	85.5	86.0
>=2500	14.9	82.9	85.1	86.5	86.9	87.0	87.3	87.4	87.5	87.7	87.8	87.8	87.9	87.9	88.1	88.6
>=2000	15.1	85.6	88.1	89.5	90.0	90.1	90.5	90.6	90.8	90.9	91.0	91.0	91.2	91.2	91.3	91.8
>=1800	15.1	85.7	88.2	89.6	90.3	90.4	90.8	90.9	91.0	91.2	91.3	91.3	91.4	91.4	91.6	92.1
>=1500	15.1	87.4	90.4	91.9	92.7	92.9	93.2	93.4	93.5	93.6	93.8	93.8	93.9	93.9	94.0	94.5
>=1200	15.1	87.9	91.0	92.7	93.8	93.9	94.3	94.4	94.5	94.8	94.9	94.9	95.1	95.1	95.2	95.7
>=1000	15.1	88.7	91.9	93.8	94.8	94.9	95.6	95.7	95.8	96.1	96.2	96.2	96.4	96.4	96.5	97.0
>=800	15.1	88.7	92.1	93.9	94.9	95.1	95.7	95.8	96.0	96.2	96.4	96.4	96.5	96.5	96.6	97.1
>=600	15.2	89.1	92.5	94.7	95.7	95.8	96.5	96.6	96.8	97.0	97.1	97.1	97.4	97.4	97.5	98.1
>=700	15.2	89.2	92.6	94.8	95.8	96.0	96.8	97.0	97.1	97.4	97.5	97.5	97.8	97.8	97.9	98.4
>=600	15.2	89.4	92.7	95.1	96.1	96.2	97.1	97.4	97.5	97.9	98.1	98.1	98.3	98.3	98.4	99.0
>=500	15.2	89.4	92.7	95.1	96.1	96.2	97.3	97.5	97.7	98.1	98.2	98.2	98.4	98.4	98.6	99.1
>=400	15.2	89.5	92.9	95.2	96.2	96.4	97.4	97.7	97.8	98.2	98.3	98.3	98.6	98.6	98.7	99.2
>=300	15.2	89.5	93.0	95.3	96.4	96.5	97.5	97.8	97.9	98.4	98.6	98.6	98.8	98.8	99.0	99.5
>=200	15.2	89.5	93.0	95.3	96.4	96.5	97.5	97.8	97.9	98.4	98.6	98.6	99.0	99.0	99.1	99.6
>=100	15.2	89.5	93.0	95.3	96.4	96.5	97.5	97.8	97.9	98.4	98.6	98.6	99.1	99.1	99.2	99.9
>=0	15.2	89.5	93.0	95.3	96.4	96.5	97.5	97.8	97.9	98.4	98.6	98.6	99.1	99.1	99.2	100.0

TOTAL NO. OF OBS : 770

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=5/8	>=1/2	>=5/16
UNLIMIT	12.5	57.1	58.4	60.2	60.4	60.4	60.4	60.4	60.5	60.5	60.6	60.8	60.8	60.8	61.1	61.1
>=20000	12.5	58.9	60.5	62.5	62.6	62.6	62.6	62.6	62.7	62.7	63.0	63.1	63.1	63.1	63.5	63.5
>=18000	12.5	59.6	61.1	63.1	63.2	63.2	63.2	63.2	63.4	63.5	63.8	63.9	63.9	63.9	64.3	64.3
>=16000	12.5	59.6	61.1	63.1	63.2	63.2	63.2	63.2	63.4	63.5	63.8	63.9	63.9	63.9	64.3	64.3
>=14000	12.5	59.6	61.3	63.2	63.4	63.4	63.4	63.5	63.6	63.6	63.9	64.0	64.0	64.0	64.4	64.4
>=12000	12.5	59.8	61.7	63.6	63.8	63.8	63.8	63.9	64.0	64.0	64.3	64.4	64.4	64.4	64.8	64.8
>=10000	12.9	61.9	63.8	65.7	65.8	65.8	65.8	66.0	66.1	66.1	66.4	66.5	66.5	66.5	66.9	66.9
>= 9000	13.2	62.7	64.5	66.5	66.6	66.6	66.6	66.8	66.9	66.9	67.1	67.3	67.3	67.3	67.7	67.7
>= 8000	13.6	65.2	67.1	69.2	69.6	69.6	69.6	69.8	69.9	69.9	70.1	70.3	70.3	70.3	70.7	70.7
>= 7000	13.6	66.5	68.4	70.7	71.1	71.1	71.2	71.3	71.3	71.3	71.6	71.7	71.7	71.7	72.1	72.1
>= 6000	13.7	67.0	69.1	71.3	71.7	71.7	71.8	72.0	72.0	72.0	72.2	72.4	72.4	72.4	72.8	72.8
>= 5000	13.8	69.0	71.2	73.4	73.8	73.8	73.9	74.1	74.1	74.1	74.3	74.4	74.4	74.4	74.8	74.8
>= 4500	14.0	70.0	72.2	74.6	75.0	75.0	75.1	75.2	75.2	75.2	75.5	75.6	75.6	75.6	76.0	76.0
>= 4000	14.3	72.8	75.1	77.6	78.0	78.0	78.1	78.2	78.2	78.2	78.5	78.6	78.6	78.6	79.0	79.0
>= 3500	14.3	73.9	76.3	78.7	79.1	79.1	79.3	79.4	79.4	79.4	79.7	79.8	79.8	79.8	80.2	80.2
>= 3000	14.3	76.4	79.0	81.9	82.3	82.3	82.4	82.5	82.5	82.5	82.8	82.9	82.9	82.9	83.3	83.3
>= 2500	14.6	78.9	81.6	84.5	84.9	84.9	85.0	85.1	85.1	85.1	85.4	85.5	85.5	85.5	85.9	85.9
>= 2000	14.9	82.1	85.5	88.9	89.3	89.3	89.4	89.6	89.6	89.6	89.8	90.0	90.0	90.0	90.4	90.4
>= 1800	14.9	82.5	86.2	89.6	90.0	90.0	90.1	90.2	90.2	90.2	90.5	90.6	90.6	90.6	91.0	91.0
>= 1500	14.9	84.0	87.9	91.5	91.9	91.9	92.0	92.2	92.2	92.2	92.4	92.6	92.6	92.6	93.0	93.0
>= 1200	14.9	84.5	88.4	92.2	93.0	93.0	93.1	93.2	93.2	93.2	93.5	93.6	93.6	93.6	94.0	94.0
>= 1000	14.9	85.3	89.2	93.1	93.9	93.9	94.1	94.3	94.3	94.3	94.5	94.7	94.7	94.7	95.0	95.0
>= 900	14.9	85.4	89.4	93.4	94.1	94.1	94.5	94.7	94.7	94.7	94.9	95.0	95.0	95.0	95.4	95.4
>= 800	14.9	85.4	89.6	93.5	94.4	94.4	94.8	95.2	95.2	95.2	95.4	95.6	95.6	95.6	96.0	96.0
>= 700	14.9	85.5	89.8	93.7	94.8	94.8	95.2	95.7	95.7	95.7	96.0	96.1	96.1	96.1	96.5	96.5
>= 600	14.9	85.5	89.8	93.7	94.9	94.9	95.3	96.0	96.0	96.0	96.2	96.3	96.3	96.3	96.7	96.7
>= 500	14.9	85.5	89.8	93.9	95.2	95.2	95.7	96.3	96.3	96.3	96.6	96.7	96.7	96.7	97.1	97.1
>= 400	14.9	85.5	89.8	93.9	95.2	95.2	95.8	96.6	96.6	96.6	96.9	97.0	97.0	97.1	97.5	97.5
>= 300	14.9	85.7	90.0	94.1	95.4	95.4	96.1	96.9	96.9	96.9	97.1	97.3	97.3	97.4	97.8	97.8
>= 200	14.9	85.8	90.1	94.3	95.6	95.6	96.2	97.0	97.0	97.0	97.3	97.4	97.4	97.5	97.9	97.9
>= 100	14.9	85.8	90.1	94.3	95.6	95.6	96.2	97.1	97.1	97.1	97.5	97.7	97.7	97.8	98.2	98.2
>= 0	14.9	85.8	90.1	94.3	95.6	95.6	96.2	97.1	97.1	97.1	97.5	97.7	97.7	97.8	98.2	98.2

TOTAL NO. OF OBS : 767

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	11.7	53.6	55.4	56.5	56.9	56.9	56.9	57.1	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.9	58.2	58.4	59.1
>=20000	11.7	56.0	58.2	59.2	59.6	59.6	59.6	59.8	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.6	60.9	61.1	61.8
>=18000	11.7	56.5	58.7	59.7	60.1	60.1	60.1	60.4	60.6	60.6	60.6	60.6	60.6	60.8	60.8	61.1	61.4	61.7	62.3
>=16000	11.7	56.5	58.7	59.7	60.1	60.1	60.1	60.4	60.6	60.6	60.6	60.6	60.6	60.8	60.8	61.1	61.4	61.7	62.3
>=14000	11.7	56.6	58.8	59.8	60.2	60.2	60.2	60.5	60.8	60.8	60.8	60.8	60.8	60.9	60.9	61.3	61.5	61.8	62.4
>=12000	11.7	56.7	59.1	60.1	60.5	60.5	60.5	60.8	61.0	61.0	61.0	61.0	61.0	61.1	61.1	61.5	61.8	62.0	62.7
>=10000	12.2	59.2	61.7	62.7	63.1	63.1	63.1	63.3	63.6	63.6	63.6	63.6	63.6	63.7	63.7	64.1	64.4	64.6	65.3
>=9000	12.2	60.0	62.4	63.5	63.9	63.9	63.9	64.1	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.9	65.2	65.4	66.1
>=8000	12.6	63.7	66.6	68.0	68.4	68.4	68.4	68.7	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.4	69.7	69.9	70.6
>=7000	12.8	65.3	68.1	69.7	70.2	70.2	70.2	70.5	70.7	70.7	70.7	70.7	70.7	70.9	70.9	71.2	71.5	71.8	72.4
>=6000	12.8	65.3	68.1	69.7	70.2	70.2	70.2	70.5	70.7	70.7	70.7	70.7	70.7	70.9	70.9	71.2	71.5	71.8	72.4
>=5000	13.3	67.5	70.5	72.2	72.7	72.7	72.7	72.9	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.7	74.0	74.2	74.9
>=4500	13.6	68.8	71.8	73.4	74.0	74.0	74.0	74.2	74.5	74.5	74.5	74.5	74.5	74.6	74.6	75.0	75.3	75.5	76.2
>=4000	13.7	71.0	74.0	75.6	76.2	76.2	76.2	76.4	76.7	76.7	76.7	76.7	76.7	76.8	76.8	77.2	77.5	77.7	78.4
>=3500	13.7	72.4	75.4	77.1	77.6	77.6	77.6	77.8	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.6	78.9	79.1	79.8
>=3000	13.9	75.8	78.8	80.6	81.1	81.1	81.1	81.3	81.6	81.6	81.6	81.6	81.6	81.7	81.7	82.1	82.4	82.6	83.3
>=2500	13.9	78.6	81.7	83.8	84.3	84.3	84.3	84.6	84.8	84.8	84.8	84.8	84.8	85.0	85.0	85.4	85.6	85.9	86.5
>=2000	14.1	81.3	84.7	87.2	87.8	87.8	87.8	88.1	88.3	88.3	88.3	88.3	88.3	88.5	88.5	88.9	89.1	89.4	90.0
>=1800	14.1	82.1	85.5	88.0	88.7	88.7	88.7	89.0	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.8	90.0	90.3	90.9
>=1500	14.5	83.8	87.6	90.3	91.2	91.2	91.2	91.6	91.8	91.8	91.8	91.8	91.8	92.0	92.0	92.4	92.6	92.9	93.5
>=1200	14.5	84.1	88.1	90.8	91.8	91.8	91.8	92.2	92.5	92.5	92.5	92.5	92.5	92.6	92.6	93.0	93.3	93.5	94.2
>=1000	14.5	84.5	88.6	91.5	92.5	92.5	92.5	92.9	93.1	93.1	93.1	93.1	93.1	93.3	93.3	93.7	93.9	94.2	94.8
>=900	14.5	84.6	88.9	91.7	92.7	92.7	92.7	93.1	93.4	93.4	93.4	93.4	93.4	93.5	93.5	93.9	94.2	94.4	95.1
>=800	14.5	84.6	89.1	92.2	93.4	93.4	93.4	93.9	94.2	94.2	94.2	94.2	94.2	94.4	94.4	94.8	95.1	95.3	96.0
>=700	14.5	84.6	89.1	92.4	93.5	93.5	93.5	94.0	94.3	94.3	94.3	94.3	94.3	94.6	94.6	94.9	95.2	95.5	96.1
>=600	14.5	84.7	89.2	92.7	93.9	93.9	93.9	94.4	94.8	94.8	94.8	94.8	94.8	95.1	95.1	95.5	95.9	96.1	96.8
>=500	14.5	84.8	89.5	93.1	94.4	94.4	94.4	95.1	95.6	95.6	95.6	95.6	95.6	96.0	96.0	96.4	96.8	97.0	97.7
>=400	14.5	84.8	89.5	93.1	94.4	94.4	94.4	95.1	95.6	95.6	95.6	95.6	95.6	96.0	96.0	96.4	96.8	97.0	97.7
>=300	14.5	84.8	89.5	93.1	94.4	94.4	94.4	95.1	95.6	95.6	95.6	95.6	95.6	96.0	96.0	96.4	96.8	97.0	97.7
>=200	14.5	85.0	89.6	93.3	94.6	94.6	94.6	95.2	95.7	95.7	95.7	95.7	95.7	96.2	96.2	96.6	97.2	97.4	98.1
>=100	14.5	85.0	89.6	93.3	94.6	94.6	94.6	95.2	95.7	95.7	95.7	95.7	95.7	96.4	96.4	96.9	97.4	97.8	98.8
>=0	14.5	85.0	89.6	93.3	94.6	94.6	94.6	95.2	95.7	95.7	95.7	95.7	95.7	96.4	96.5	97.0	97.5	97.9	100.0

TOTAL NO. OF OBS : 772

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)										
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4	>=0
UNLIMIT	14.8	47.9	49.3	50.3	50.9	51.2	51.3	51.4	51.6	51.8	51.8
>=20000	14.8	50.8	52.8	53.7	54.5	54.9	55.0	55.1	55.2	55.5	55.5
>=18000	14.8	51.6	53.5	54.5	55.2	55.6	55.8	55.9	56.0	56.3	56.3
>=16000	14.8	51.7	53.8	54.7	55.5	55.9	56.0	56.2	56.3	56.6	56.6
>=14000	15.0	51.8	54.1	55.0	55.8	56.2	56.3	56.4	56.6	56.8	56.8
>=12000	15.2	52.6	54.9	55.9	56.7	57.1	57.2	57.3	57.5	57.7	57.7
>=10000	15.7	54.6	56.8	58.0	58.9	59.3	59.4	59.6	59.7	60.0	60.0
>=9000	16.3	55.8	58.1	59.3	60.2	60.6	60.8	60.9	61.0	61.3	61.3
>=8000	17.1	60.5	63.3	64.6	65.5	65.9	66.0	66.3	66.4	66.7	66.7
>=7000	17.3	63.6	66.8	68.4	69.4	69.8	69.9	70.2	70.3	70.6	70.6
>=6000	18.0	64.4	67.6	69.2	70.2	70.6	70.7	71.0	71.1	71.4	71.4
>=5000	18.1	65.9	69.2	70.7	71.8	72.2	72.3	72.6	72.7	73.0	73.0
>=4500	18.5	66.8	70.1	71.7	72.7	73.1	73.2	73.5	73.6	73.9	73.9
>=4000	18.9	69.4	73.1	74.8	75.9	76.2	76.4	76.8	76.9	77.2	77.2
>=3500	19.3	70.7	74.4	76.2	77.4	77.8	78.0	78.3	78.5	78.7	78.7
>=3000	19.7	74.0	77.7	79.9	81.2	81.6	81.8	82.2	82.3	82.5	82.5
>=2500	19.9	76.4	80.1	82.4	83.7	84.1	84.3	84.8	84.9	85.3	85.3
>=2000	20.5	79.3	83.3	85.8	87.1	87.5	87.8	88.3	88.5	88.8	88.8
>=1800	20.5	79.8	83.9	86.4	87.7	88.1	88.3	88.8	89.0	89.4	89.4
>=1500	20.6	81.5	85.7	88.3	89.6	90.0	90.3	90.8	90.9	91.3	91.3
>=1200	20.6	82.2	86.5	89.1	90.6	90.9	91.3	91.9	92.0	92.4	92.4
>=1000	20.6	82.7	87.1	89.9	91.3	91.7	92.1	92.7	92.8	93.2	93.2
>=900	20.6	82.8	87.3	90.0	91.5	91.9	92.3	92.8	92.9	93.3	93.3
>=800	20.6	83.2	87.7	90.6	92.1	92.5	92.9	93.6	93.7	94.1	94.1
>=700	20.6	83.2	87.7	90.6	92.3	92.9	93.3	94.1	94.2	94.8	94.8
>=600	20.6	83.3	87.8	90.7	92.4	93.0	93.7	94.6	94.9	95.5	95.5
>=500	20.6	83.5	87.9	90.9	92.8	93.4	94.2	95.1	95.4	96.1	96.1
>=400	20.6	83.6	88.1	91.2	93.0	93.8	94.8	95.7	95.9	96.7	96.7
>=300	20.6	83.6	88.1	91.3	93.2	94.0	94.9	95.8	96.1	96.9	96.9
>=200	20.6	83.6	88.1	91.3	93.2	94.0	95.0	96.1	96.3	97.1	97.1
>=100	20.6	83.6	88.1	91.3	93.2	94.0	95.0	96.1	96.3	97.1	97.1
>= 0	20.6	83.6	88.1	91.3	93.2	94.0	95.0	96.1	96.3	97.1	97.1

TOTAL NO. OF OBS : 762

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	17.8	49.3	49.9	50.3	50.3	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
>=20000	18.0	54.0	54.7	55.2	55.2	55.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
>=18000	18.0	54.7	55.3	55.8	55.8	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
>=16000	18.0	54.8	55.4	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
>=14000	18.2	55.0	55.7	56.2	56.2	56.2	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
>=12000	18.9	56.5	57.1	57.7	57.7	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
>=10000	19.5	58.3	59.0	59.5	59.5	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
>=9000	19.9	59.6	60.3	61.1	61.2	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
>=8000	21.0	64.0	64.9	65.8	65.9	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
>=7000	21.6	67.1	68.5	69.5	69.7	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
>=6000	21.8	67.5	69.1	70.0	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
>=5000	21.8	68.3	69.9	70.9	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>=4500	21.9	69.1	70.6	71.7	72.1	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
>=4000	22.9	71.4	73.0	74.0	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
>=3500	23.5	72.9	74.6	75.6	76.1	76.1	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
>=3000	24.2	76.9	78.9	79.9	80.6	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>=2500	25.0	80.5	82.6	83.9	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
>=2000	26.2	85.2	87.4	89.0	89.8	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
>=1800	26.2	85.3	87.5	89.1	89.9	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
>=1500	26.7	87.3	89.6	91.2	92.1	92.3	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
>=1200	26.7	87.9	90.3	92.1	93.1	93.2	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
>=1000	26.9	88.7	91.1	93.1	94.4	94.6	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>=900	26.9	88.7	91.1	93.2	94.5	94.8	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>=800	26.9	89.0	91.3	93.4	94.8	95.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>=700	26.9	89.3	91.6	93.7	95.2	95.4	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>=600	26.9	89.4	91.7	94.0	95.4	95.7	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>=500	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>=400	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=300	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=200	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=100	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=0	26.9	89.6	92.0	94.5	95.9	96.3	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NO. OF OBS : 763

## 2 - CEILING VS VISIBILITY

D13025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.9	51.5	51.7	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9
>=20000	19.3	55.8	56.0	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3
>=18000	19.3	56.7	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2
>=16000	19.3	56.8	57.1	57.2	57.2	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5
>=14000	19.7	57.4	57.6	57.8	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0
>=12000	20.1	58.6	58.8	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2
>=10000	20.6	60.2	60.4	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.8
>= 9000	20.8	61.5	62.0	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4
>= 8000	21.9	67.2	67.9	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.3	68.3	68.3	68.3	68.3	68.3
>= 7000	22.4	70.7	71.6	71.8	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1
>= 6000	22.4	71.4	72.4	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0
>= 5000	22.6	72.4	73.3	73.7	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1
>= 4500	22.8	72.9	73.8	74.2	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6
>= 4000	23.1	75.0	76.2	76.6	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0
>= 3500	23.8	77.0	78.2	78.6	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0
>= 3000	24.4	81.7	83.0	83.5	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9
>= 2500	25.5	85.1	86.6	87.1	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6
>= 2000	25.8	87.3	89.1	89.8	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7
>= 1800	25.9	87.4	89.2	90.0	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1
>= 1500	26.8	89.5	91.9	93.1	94.0	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7	94.7	94.7	94.7
>= 1200	26.8	90.2	92.7	94.2	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1
>= 1000	26.8	90.7	93.4	94.8	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.1
>= 900	27.0	90.8	93.5	95.0	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.3	97.3	97.3	97.3	97.3	97.3
>= 800	27.0	90.8	93.6	95.1	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3
>= 700	27.0	91.0	93.8	95.2	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	98.1	98.1	98.1	98.1	98.1	98.1
>= 600	27.0	91.0	93.9	95.5	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4
>= 500	27.0	91.1	94.0	95.8	97.6	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.9	98.9	98.9	98.9	98.9	98.9
>= 400	27.0	91.1	94.0	95.8	97.6	97.6	98.1	98.1	98.1	98.1	98.1	98.1	99.3	99.3	99.3	99.3	99.3	99.3
>= 300	27.0	91.2	94.2	95.9	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	27.0	91.2	94.2	95.9	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	99.7	99.7	99.7	99.7	99.7	99.7
>= 100	27.0	91.2	94.2	95.9	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	99.9	99.9	99.9	99.9	99.9	99.9
>= 0	27.0	91.2	94.2	95.9	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 753

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.8	50.6	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
>=20000	18.8	55.3	56.2	56.3	56.3	56.3	56.3	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
>=18000	18.9	56.7	57.6	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
>=16000	18.8	56.7	57.6	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
>=14000	19.1	57.3	58.3	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
>=12000	19.6	58.8	59.9	60.1	60.1	60.1	60.1	60.1	60.3	60.3	60.3	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4
>=10000	19.9	60.7	61.7	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2
>=9000	20.3	61.8	62.9	63.1	63.1	63.1	63.1	63.1	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4
>=8000	21.6	66.8	67.8	68.2	68.2	68.2	68.2	68.2	68.4	68.4	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.5
>=7000	21.7	69.0	70.3	70.7	70.7	70.7	70.7	70.7	71.0	71.0	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2
>=6000	21.7	69.7	71.0	71.4	71.4	71.4	71.4	71.4	71.6	71.6	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9
>=5000	22.1	71.1	72.4	72.8	72.8	72.8	72.8	72.8	73.0	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3
>=4500	22.1	71.9	73.2	73.7	73.7	73.7	73.7	73.7	74.0	74.0	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2
>=4000	22.6	74.6	75.9	76.5	76.6	76.6	76.6	76.6	77.0	77.0	77.1	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3
>=3500	23.0	75.8	77.3	77.9	78.0	78.0	78.0	78.0	78.4	78.4	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7
>=3000	23.5	80.4	82.0	82.7	82.9	82.9	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5
>=2500	23.5	82.9	84.7	85.6	85.8	85.8	86.1	86.1	86.3	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5
>=2000	24.2	87.1	88.9	90.3	90.5	90.5	90.8	90.8	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2
>=1800	24.3	87.6	89.5	91.0	91.1	91.1	91.5	91.5	91.6	91.6	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9
>=1500	24.6	89.4	91.6	93.1	93.5	93.5	94.0	94.0	94.1	94.1	94.2	94.2	94.2	94.4	94.4	94.5	94.5	94.5	94.5
>=1200	24.7	89.8	92.3	93.7	94.1	94.2	94.8	94.8	94.9	94.9	95.2	95.2	95.2	95.3	95.3	95.4	95.4	95.4	95.4
>=1000	24.8	90.2	92.7	94.2	94.8	94.9	95.6	95.6	95.9	95.9	96.2	96.2	96.2	96.3	96.3	96.6	96.6	96.6	96.6
>=900	24.8	90.2	92.7	94.4	95.0	95.2	95.8	95.8	96.3	96.3	96.6	96.6	96.6	96.7	96.7	97.0	97.0	97.0	97.0
>=800	24.8	90.5	93.2	95.0	95.7	95.8	96.5	96.5	97.1	97.1	97.4	97.4	97.4	97.5	97.5	97.8	97.8	97.8	97.8
>=700	24.8	90.6	93.3	95.2	95.9	96.1	96.7	96.7	97.4	97.4	97.6	97.6	97.6	97.9	97.9	98.2	98.2	98.2	98.2
>=600	24.8	90.6	93.3	95.3	96.2	96.3	97.0	97.0	97.6	97.6	97.9	97.9	97.9	98.3	98.3	98.6	98.6	98.6	98.6
>=500	24.8	91.0	93.9	95.9	96.9	97.0	97.6	97.6	98.3	98.3	98.6	98.6	98.6	99.0	99.0	99.2	99.2	99.2	99.2
>=400	24.8	91.0	93.9	95.9	96.9	97.0	97.6	97.6	98.3	98.3	98.6	98.6	98.6	99.0	99.0	99.2	99.2	99.2	99.2
>=300	24.8	91.0	93.9	95.9	97.0	97.1	97.8	97.8	98.6	98.6	98.8	98.8	98.8	99.3	99.3	99.6	99.6	99.6	99.6
>=200	24.8	91.0	93.9	95.9	97.0	97.1	97.8	97.8	98.6	98.6	98.8	98.8	98.8	99.3	99.3	99.6	99.6	99.6	99.6
>=100	24.8	91.0	93.9	95.9	97.0	97.1	97.8	97.8	98.6	98.6	98.8	98.8	98.8	99.3	99.3	99.6	99.6	99.6	99.6
>=0	24.8	91.0	93.9	95.9	97.0	97.1	97.8	97.8	98.6	98.6	98.8	98.8	98.8	99.3	99.3	99.6	99.6	99.6	100.0

TOTAL NO. OF OBS : 765



## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.1	59.5	60.2	60.7	61.1	61.1	61.2	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.7
>=20000	14.1	61.5	62.1	62.8	63.2	63.2	63.3	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.8
>=18000	14.1	62.1	62.8	63.4	63.8	63.8	63.9	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.5
>=16000	14.1	62.1	62.8	63.4	63.8	63.8	63.9	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.5
>=14000	14.1	62.1	62.9	63.6	63.9	63.9	64.1	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.5	64.5	64.5	64.6
>=12000	14.1	62.6	63.4	64.2	64.6	64.6	64.7	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.2
>=10000	14.4	64.7	65.6	66.4	66.8	66.8	66.9	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.4
>= 9000	14.4	65.5	66.4	67.3	67.7	67.7	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.4
>= 8000	15.2	69.9	70.8	71.7	72.1	72.1	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.6	72.8
>= 7000	15.3	72.8	73.9	74.8	75.2	75.2	75.4	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.9
>= 6000	15.3	73.0	74.2	75.2	75.6	75.6	75.7	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.3
>= 5000	15.4	74.7	75.9	77.2	77.6	77.6	77.7	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.2
>= 4500	15.8	75.6	77.0	78.3	78.7	78.7	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.4
>= 4000	16.1	78.1	79.6	80.9	81.3	81.3	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.8	82.0
>= 3500	16.1	79.4	80.9	82.2	82.6	82.6	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.3
>= 3000	16.7	82.7	84.6	86.0	86.4	86.4	86.5	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	87.0
>= 2500	16.9	84.2	86.1	87.5	87.9	87.9	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.5	88.5	88.5	88.6
>= 2000	17.0	87.4	89.8	91.6	92.0	92.0	92.1	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.7
>= 1800	17.0	87.7	90.3	92.1	92.5	92.5	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.3
>= 1500	17.1	89.6	92.5	94.4	94.8	94.8	94.9	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.7
>= 1200	17.1	89.9	92.7	95.2	95.7	95.7	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.6
>= 1000	17.1	90.3	93.1	95.6	96.2	96.2	96.5	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.3
>= 900	17.1	90.3	93.3	95.7	96.5	96.5	96.8	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.5
>= 800	17.1	90.8	94.0	96.5	97.3	97.3	97.8	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.7
>= 700	17.1	91.1	94.3	96.8	97.5	97.5	98.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.1
>= 600	17.1	91.1	94.3	96.8	97.5	97.5	98.2	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2
>= 500	17.1	91.1	94.3	96.8	97.5	97.5	98.2	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2
>= 400	17.1	91.1	94.3	96.8	97.5	97.5	98.3	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.4
>= 300	17.1	91.1	94.3	96.8	97.5	97.5	98.3	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.4	99.5
>= 200	17.1	91.1	94.3	96.8	97.5	97.5	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.6	99.9
>= 100	17.1	91.1	94.3	96.8	97.5	97.5	98.6	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.7	100.0
>= 0	17.1	91.1	94.3	96.8	97.5	97.5	98.6	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.7	100.0

TOTAL NO. OF OBS : 771

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : FEB  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.2	53.7	54.6	55.3	55.6	55.6	55.8	55.9	55.9	56.0	56.0	56.0	56.1	56.2	56.3	56.5
>=20000	15.3	56.7	57.9	58.6	58.9	59.0	59.1	59.2	59.3	59.3	59.4	59.4	59.5	59.6	59.7	59.9
>=18000	15.3	57.5	58.7	59.4	59.7	59.8	59.9	60.0	60.1	60.2	60.2	60.2	60.3	60.4	60.5	60.7
>=16000	15.3	57.6	58.7	59.5	59.8	59.8	60.0	60.1	60.2	60.2	60.3	60.3	60.4	60.5	60.6	60.8
>=14000	15.4	57.8	59.1	59.8	60.1	60.2	60.3	60.4	60.5	60.5	60.6	60.6	60.7	60.8	60.9	61.1
>=12000	15.6	58.5	59.9	60.7	61.0	61.0	61.2	61.3	61.3	61.4	61.5	61.5	61.6	61.7	61.8	62.0
>=10000	16.0	60.4	61.8	62.6	62.9	62.9	63.1	63.2	63.3	63.4	63.4	63.4	63.6	63.7	63.7	64.0
>=9000	16.3	61.4	62.8	63.7	64.0	64.0	64.2	64.3	64.4	64.4	64.5	64.5	64.7	64.7	64.8	65.0
>=8000	17.1	65.6	67.2	68.2	68.5	68.6	68.7	68.9	68.9	69.0	69.1	69.1	69.2	69.2	69.3	69.6
>=7000	17.3	68.0	69.8	70.9	71.3	71.4	71.6	71.7	71.8	71.8	71.9	71.9	72.1	72.1	72.2	72.4
>=6000	17.4	68.5	70.3	71.5	71.9	72.0	72.2	72.3	72.4	72.4	72.5	72.5	72.6	72.7	72.8	73.0
>=5000	17.6	70.1	72.0	73.2	73.6	73.7	73.9	74.0	74.1	74.1	74.2	74.2	74.4	74.4	74.5	74.8
>=4500	17.8	71.0	72.9	74.2	74.6	74.7	74.9	75.0	75.1	75.1	75.2	75.2	75.4	75.4	75.5	75.7
>=4000	18.2	73.5	75.6	76.9	77.3	77.4	77.6	77.8	77.8	77.9	78.0	78.0	78.1	78.1	78.2	78.5
>=3500	18.5	75.0	77.1	78.4	78.9	78.9	79.1	79.3	79.3	79.4	79.5	79.5	79.6	79.7	79.8	80.0
>=3000	18.9	78.5	80.8	82.3	82.8	82.9	83.1	83.2	83.3	83.4	83.5	83.5	83.6	83.6	83.7	84.0
>=2500	19.3	81.2	83.6	85.2	85.7	85.7	86.0	86.1	86.2	86.3	86.4	86.4	86.5	86.5	86.6	86.9
>=2000	19.7	84.4	87.1	89.0	89.6	89.7	89.9	90.1	90.2	90.3	90.4	90.4	90.5	90.5	90.6	90.9
>=1800	19.7	84.8	87.5	89.5	90.1	90.2	90.4	90.6	90.7	90.8	90.9	90.9	91.0	91.0	91.1	91.4
>=1500	20.0	86.6	89.6	91.7	92.5	92.6	92.9	93.1	93.2	93.3	93.4	93.4	93.5	93.6	93.7	93.9
>=1200	20.0	87.0	90.2	92.5	93.4	93.5	93.9	94.1	94.2	94.3	94.4	94.4	94.6	94.6	94.7	95.0
>=1000	20.1	87.6	90.9	93.2	94.3	94.4	94.9	95.1	95.2	95.4	95.5	95.5	95.6	95.7	95.8	96.0
>=900	20.1	87.7	91.0	93.4	94.5	94.6	95.1	95.4	95.5	95.6	95.7	95.7	95.9	96.0	96.0	96.3
>=800	20.1	87.9	91.4	93.9	95.0	95.1	95.7	96.1	96.2	96.4	96.5	96.5	96.7	96.7	96.8	97.1
>=700	20.1	88.0	91.5	94.0	95.3	95.4	96.0	96.5	96.6	96.8	96.9	96.9	97.1	97.1	97.2	97.5
>=600	20.1	88.1	91.6	94.2	95.5	95.6	96.3	96.8	97.0	97.3	97.4	97.4	97.6	97.6	97.7	98.0
>=500	20.1	88.2	91.8	94.5	95.8	96.0	96.7	97.3	97.5	97.8	97.9	97.9	98.1	98.2	98.3	98.6
>=400	20.1	88.3	91.8	94.5	95.9	96.0	96.8	97.5	97.6	98.0	98.1	98.1	98.4	98.4	98.5	98.8
>=300	20.1	88.3	91.9	94.6	95.9	96.1	97.0	97.6	97.7	98.1	98.3	98.3	98.5	98.6	98.7	99.0
>=200	20.1	88.3	91.9	94.7	96.0	96.2	97.0	97.7	97.8	98.3	98.4	98.4	98.7	98.8	99.0	99.3
>=100	20.1	88.3	91.9	94.7	96.0	96.2	97.0	97.7	97.9	98.3	98.5	98.5	98.8	98.9	99.1	99.6
>= 0	20.1	88.3	91.9	94.7	96.0	96.2	97.0	97.7	97.9	98.3	98.5	98.5	98.8	98.9	99.1	100.0

TOTAL NO. OF OBS : 6123

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : MAR  
 CLASS : ALL WEATHER HOUR : 0100 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	1.5	2.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	4.7	4.3
NNE	.5	1.4	1.3	.1	.0	.0	.0	.0	.0	.0	.0	3.2	6.0
NE	1.3	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.9	3.9
ENE	2.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	3.5
E	5.2	5.8	2.8	.7	.0	.0	.0	.0	.0	.0	.0	14.4	4.9
ESE	1.0	1.4	3.2	3.0	.8	.2	.0	.0	.0	.0	.0	9.7	9.8
SE	.7	.6	1.3	1.5	.6	.2	.0	.0	.0	.0	.0	4.8	10.7
SSE	.0	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	1.8	7.8
S	.3	.8	.6	.5	.1	.0	.0	.0	.0	.0	.0	2.3	7.8
SSW	.8	.9	.7	.6	.0	.0	.0	.0	.0	.0	.0	3.0	6.5
SW	.5	.9	1.3	.9	.1	.0	.0	.0	.0	.0	.0	3.7	8.5
WSW	.3	1.5	1.7	1.2	.3	.0	.0	.0	.0	.0	.0	5.1	8.8
W	1.8	2.5	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	8.1	6.9
WNW	1.7	1.7	1.8	.8	.2	.1	.0	.0	.0	.0	.0	6.5	6.8
NW	1.3	3.0	2.3	1.6	.1	.0	.0	.0	.0	.0	.0	8.3	7.2
NNW	1.6	3.8	2.1	.5	.0	.0	.0	.0	.0	.0	.0	7.9	5.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0
ALL	21.0	31.7	22.0	13.6	2.3	.6	.0	.0	.0	.0	.0	100.0	6.2

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)											TOTAL	MEAN		
16 PT.	DIR.	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			2	WIND
N		3.2	4.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	8.3	4.3		
NNE		1.2	2.4	2.4	.1	.0	.0	.0	.0	.0	.0	.0	6.1	5.7		
NE		1.5	2.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	4.8	4.7		
ENE		3.3	4.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	7.8	3.8		
E		6.3	7.7	2.9	.7	.1	.0	.0	.0	.0	.0	.0	17.7	4.9		
ESE		1.0	.6	2.1	2.0	.6	.2	.0	.0	.0	.0	.0	6.5	10.0		
SE		.5	.3	.5	1.5	.2	.1	.0	.0	.0	.0	.0	.1	10.7		
SSE		.6	.5	.6	.5	.0	.0	.0	.0	.0	.0	.0	2.1	6.9		
S		.2	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	1.3	6.8		
SSW		.1	1.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	2.9	8.1		
SW		.3	.7	.8	.6	.2	.0	.0	.0	.0	.0	.0	2.6	8.5		
WSW		.5	.8	.6	.9	.0	.0	.0	.0	.0	.0	.0	2.8	8.3		
W		.8	1.4	1.4	1.3	.0	.0	.0	.0	.0	.0	.0	4.8	7.8		
WNW		.5	1.5	2.2	.7	.1	.0	.0	.0	.0	.0	.0	5.0	7.7		
NW		1.5	3.1	2.4	1.3	.2	.0	.0	.0	.0	.0	.0	8.5	7.0		
NNW		1.5	4.1	1.4	.3	.1	.0	.0	.0	.0	.0	.0	7.5	5.8		
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
ALL		23.0	35.1	20.7	10.9	1.6	.3	.0	.0	.0	.0	.0	100.0	5.8		

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)														TOTAL	MEAN	
16 PT.	1	1-3	4	-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			%
DIR.																
N	2.3	4.8	2.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	4.9	
NNE	2.1	4.0	3.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	5.7	
NE	2.2	3.2	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.2	
ENE	3.2	4.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	4.0	
E	5.6	6.0	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.9	4.5	
ESE	.7	1.5	1.6	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	6.0	9.4	
SE	.0	.7	.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	10.8	
SSE	.2	.3	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	8.6	
S	.5	.7	.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.2	
SSW	.2	.5	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.4	
SW	.1	.7	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	2.1	9.3	
WSW	.3	.9	.7	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.8	8.7	
W	.6	1.0	1.4	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	3.8	8.5	
WNW	.5	1.4	1.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.5	
NW	.2	2.3	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.3	
NNW	2.1	3.9	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0	
ALL	20.9	36.8	21.7	9.7	1.2	.5	.0	.0	.0	.0	.0	.0	.0	100.0	5.7	

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

## 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%		WIND	SPEED	
N		.7			2.6		2.4	1.5		.0		.0	.0		.0			7.3	7.4		
NNE		1.2		2.9		3.5	1.5		.2		.0		.0		.0			9.2	7.5		
NE		2.6		3.6		3.2	1.5		.2		.0		.0		.0			11.2	6.6		
ENE		2.5		2.8		1.4	.0		.0		.0		.0		.0			6.7	4.6		
E		2.3		4.1		2.8	.9		.1		.2		.0		.0			10.5	6.4		
ESE		.5		1.0		1.5	2.2		.5		.3		.0		.0			6.0	10.8		
SE		.7		.9		1.2	1.7		.7		.1		.0		.0			5.3	10.2		
SSE		.6		.7		.8	1.2		.2		.0		.0		.0			3.5	9.0		
S		.5		1.0		.8	.5		.3		.0		.0		.0			3.1	8.1		
SSW		.3		.3		.9	.9		.0		.0		.0		.0			2.5	8.7		
SW		.1		.7		.7	.3		.0		.0		.0		.0			1.8	7.7		
WSW		.1		.7		.8	1.2		.3		.0		.0		.0			3.1	10.6		
W		.8		.9		2.0	.9		.2		.0		.0		.0			4.8	8.4		
WNW		.2		1.6		2.1	1.5		.1		.0		.0		.0			5.5	8.8		
NW		.6		1.4		2.8	2.1		.0		.0		.0		.0			6.8	8.8		
NNW		.9		2.4		2.9	1.2		.0		.1		.0		.0			7.5	7.5		
VAR		.0		.0		.0	.0		.0		.0		.0		.0			.0	.0		
CLM		.0		.0		.0	.0		.0		.0		.0		.0			5.2	.0		
ALL		14.6		27.8		29.6	19.0		3.0		.8		.0		.0			100.0	7.4		

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : MAR  
 CLASS : ALL WEATHER HOUR : 1300 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)											TOTAL	MEAN
16 PT.	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%		
DIR.														
N	.7	2.2	1.6	.6	.0	.0	.0	.0	.0	.0	.0	5.1	6.5	
NNE	.8	2.8	1.8	.7	.1	.0	.0	.0	.0	.0	.0	6.2	6.7	
NE	.6	1.3	1.4	1.5	.3	.0	.0	.0	.0	.0	.0	5.1	9.1	
ENE	.7	1.7	1.2	.7	.0	.0	.0	.0	.0	.0	.0	4.3	7.0	
E	.3	1.6	1.6	1.7	.3	.1	.0	.0	.0	.0	.0	5.8	9.7	
ESE	.3	.7	1.2	3.2	2.0	.6	.0	.0	.0	.0	.0	8.0	13.8	
SE	.1	.2	2.4	2.7	.2	.0	.1	.0	.0	.0	.0	5.8	11.6	
SSE	.5	1.4	1.6	1.6	.5	.0	.0	.0	.0	.0	.0	5.5	9.7	
S	.8	2.8	2.4	1.8	.3	.0	.0	.0	.0	.0	.0	8.2	7.8	
SSW	.3	1.8	1.0	.7	.0	.0	.0	.0	.0	.0	.0	3.9	7.2	
SW	.7	1.0	1.4	1.5	.0	.0	.0	.0	.0	.0	.0	4.6	8.5	
WSW	.2	1.7	1.6	1.5	.3	.0	.0	.0	.0	.0	.0	5.4	9.0	
W	.8	3.2	4.8	3.9	.7	.0	.0	.0	.0	.0	.0	13.5	9.4	
WNW	.3	.9	3.5	2.3	.2	.0	.0	.0	.0	.0	.0	7.3	9.7	
NW	.3	1.4	2.4	2.1	.6	.0	.0	.0	.0	.0	.0	6.8	10.0	
NNW	.7	.9	1.3	.1	.1	.0	.0	.0	.0	.0	.0	3.1	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	
ALL	8.3	25.7	31.3	26.6	5.8	.7	.1	.0	.0	.0	.0	100.0	9.0	

TOTAL NO. OF OBS : 867

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
																%	WIND SPEED
N	.5	1.3	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.9
NNE	.2	.7	.9	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	9.9
NE	.5	.9	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.0
ENE	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	8.1
E	.3	.3	1.3	.8	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	10.3
ESE	.1	.1	1.3	3.8	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	13.7
SE	.0	.5	1.3	3.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	13.0
SSE	.2	.6	1.6	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	10.1
S	.5	1.5	2.6	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	8.5
SSW	.1	1.0	2.1	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	9.4
SW	.5	1.6	3.3	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	8.4
WSW	.0	3.2	4.4	2.6	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3	9.8
W	.8	4.7	9.7	7.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.4	9.6
WNW	.1	1.6	5.0	3.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.8	10.3
NW	.0	.5	1.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	10.1
NNW	.1	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
ALL	3.9	19.6	38.1	32.1	5.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9.9

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

C13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	2	3	4	5	6	7-10	11-16	17-21	SPEED (KNOTS)					22-27	28-33	34-40	41-47	48-55	>56	TOTAL %	MEAN WIND SPEED	
N		.2	.9		.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.0
NNE		.6	.8		.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.9
NE		.1	1.0		1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.3
ENE		.0	.2		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	6.0
E		.1	.6		.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.4
ESE		.3	1.3		2.1	3.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	11.0
SE		.1	.5		3.2	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	11.3
SSE		.5	.9		1.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.8
S		.5	1.8		1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.6
SSW		.5	1.4		2.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	7.9
SW		.6	2.2		2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.6
WSW		.7	3.5		5.8	3.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.7	8.9
W		1.8	5.5		10.8	5.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.3	8.6
WNW		1.4	3.1		4.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4	7.1
NW		.5	1.7		1.8	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.8
NNW		.5	.7		.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.3
VAR		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0
ALL		8.3	26.2		38.0	22.6	2.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND					
		1.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.2	3.2				
N		1.6	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.2	3.2				
NNE		1.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	4.0				
NE		.5	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	5.6				
ENE		1.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	3.4				
E		1.8	2.9	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.9	5.7				
ESE		1.4	2.3	4.3	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	10.4	10.4	8.4				
SE		.5	1.7	2.2	2.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	7.0	7.0	9.6				
SSE		.6	.3	.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	8.3				
S		.6	1.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	6.4				
SSW		.3	1.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.3	7.1				
SW		.6	2.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.4	6.9				
WSW		1.4	3.0	2.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	8.2	7.1				
W		2.6	6.2	4.5	2.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	16.7	16.7	7.4				
WNW		2.5	4.6	1.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.9	9.9	5.9				
NW		1.2	2.8	1.8	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.9	6.9				
NNW		1.7	2.5	.6	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	5.5	5.5	5.8				
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	7.0	.0				
ALL		19.4	34.3	22.8	14.2	1.6	.5	.2	.0	.0	.0	.0	.0	.0	100.0	100.0	6.4				

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					>=56		TOTAL %	MEAN WIND SPEED
DIR.																			
N		1.3		2.5		1.2		.3		.0		.0		.0		.0		5.3	5.4
NNE		.9		2.0		1.7		.5		.1		.0		.0		.0		5.3	6.5
NE		1.2		1.8		1.3		.6		.1		.0		.0		.0		4.9	6.4
ENE		1.7		2.1		.5		.1		.0		.0		.0		.0		4.4	4.5
E		2.8		3.6		1.9		.8		.1		.1		.0		.0		9.3	5.8
ESE		.7		1.1		2.1		2.7		.8		.2		.0		.0		7.6	10.7
SE		.3		.7		1.5		2.2		.5		.1		.0*		.0		5.3	11.0
SSE		.4		.7		1.0		.8		.1		.0*		.0		.0		3.1	8.8
S		.5		1.3		1.1		.8		.1		.0		.0		.0		3.8	7.7
SSW		.3		1.0		1.3		.8		.0*		.0		.0		.0		3.5	8.0
SW		.4		1.2		1.4		.9		.1		.0*		.0		.0		4.0	8.1
WSW		.4		1.9		2.2		1.6		.3		.0*		.0		.0		6.5	8.9
W		1.3		3.2		4.6		3.0		.3		.1		.0*		.0		12.4	8.5
WNW		.9		2.1		2.8		1.5		.2		.0*		.0		.0		7.4	8.0
NW		.7		2.0		2.2		1.4		.2		.0		.0*		.0		6.5	8.1
NNW		1.1		2.4		1.2		.5		.0*		.0		.0		.0		5.3	6.2
VAR		.0		.0		.0		.0		.0		.0		.0		.0		.0	.0
CLM		.0		.0		.0		.0		.0		.0		.0		.0		5.3	.0
ALL		14.9		29.6		28.0		18.6		2.9		.6		.1		.0		100.0	7.3

TOTAL NO. OF OBS : 6943

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : POTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.9	65.3	67.1	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.5	68.5	68.6	68.9
>=20000	13.9	68.4	70.3	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.9	72.2
>=18000	13.9	68.8	70.6	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.3	72.5
>=16000	13.9	68.8	70.6	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.3	72.5
>=14000	14.2	69.2	71.1	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6	72.8	73.0
>=12000	14.3	69.6	71.5	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.1	73.3
>=10000	14.5	71.7	73.6	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.2	75.5
>= 9000	14.6	72.9	74.8	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.4	76.7
>= 8000	15.1	76.1	78.1	79.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.7	80.0
>= 7000	15.7	77.7	79.8	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.6	81.8
>= 6000	15.7	78.3	80.4	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.2	82.4
>= 5000	15.7	79.6	81.8	83.1	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.6	83.8
>= 4500	15.7	80.3	82.7	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.4	84.7
>= 4000	15.8	82.9	85.4	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.1	87.4
>= 3500	15.9	83.7	86.2	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.9	87.9	88.0	88.2
>= 3000	16.2	85.7	88.4	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.4	90.7
>= 2500	16.4	87.9	90.9	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.0	93.3
>= 2000	16.5	89.3	92.5	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.5	94.5	94.6	94.9
>= 1800	16.5	89.6	92.8	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.9	95.0
>= 1500	16.6	90.9	94.1	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.3	96.7
>= 1200	16.7	91.3	94.6	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.8	97.2
>= 1000	16.7	91.5	95.0	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.5	97.9
>= 900	16.7	91.5	95.0	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.5	97.9
>= 800	16.7	91.9	95.5	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	98.0	98.5
>= 700	16.7	91.9	95.5	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.4	98.9
>= 600	16.7	91.9	95.6	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.7	99.2
>= 500	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	99.4
>= 400	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	99.5
>= 300	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	99.6
>= 200	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	99.6
>= 100	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	99.6
>= 0	16.7	91.9	95.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.9	100.0

TOTAL NO. OF OBS : 848

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.0	63.9	65.1	66.4	66.5	66.5	66.5	66.7	66.7	66.7	67.0	67.0	67.0	67.0	67.0	67.2	67.2	67.3	67.8
>=20000	13.0	65.8	67.1	68.4	68.5	68.5	68.5	68.8	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.2	69.2	69.4	69.8
>=18000	13.0	65.9	67.3	68.7	68.8	68.8	68.8	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.5	69.5	69.6	70.1
>=16000	13.0	65.9	67.3	68.7	68.8	68.8	68.8	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.5	69.5	69.6	70.1
>=14000	13.1	66.0	67.5	68.8	68.9	68.9	68.9	69.1	69.1	69.1	69.4	69.4	69.4	69.4	69.4	69.6	69.6	69.7	70.2
>=12000	13.1	66.3	67.7	69.0	69.1	69.1	69.1	69.4	69.4	69.4	69.6	69.6	69.6	69.6	69.6	69.8	69.8	70.0	70.4
>=10000	13.2	68.2	69.6	71.0	71.2	71.2	71.2	71.4	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.9	71.9	72.0	72.5
>= 9000	13.5	69.2	70.7	72.1	72.2	72.2	72.2	72.5	72.5	72.5	72.7	72.7	72.7	72.7	72.7	72.9	72.9	73.1	73.5
>= 8000	13.9	72.8	74.3	75.8	75.9	75.9	75.9	76.2	76.2	76.2	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.8	77.2
>= 7000	14.3	74.4	75.8	77.4	77.5	77.5	77.5	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	78.2	78.2	78.3	78.8
>= 6000	14.3	74.6	76.2	77.7	77.8	77.8	77.8	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.5	78.5	78.7	79.1
>= 5000	14.3	76.4	77.9	79.5	79.6	79.6	79.6	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.3	80.3	80.5	80.9
>= 4500	14.3	77.6	79.3	80.8	80.9	80.9	80.9	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.6	81.6	81.8	82.2
>= 4000	14.8	80.2	81.9	83.4	83.7	83.7	83.8	84.0	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.5	84.5	84.6	85.1
>= 3500	14.9	81.4	83.1	84.6	84.9	84.9	85.0	85.2	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.7	85.7	85.8	86.3
>= 3000	15.0	83.8	85.7	87.2	87.5	87.5	87.6	87.8	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.3	88.4	88.9
>= 2500	15.0	85.6	87.5	89.3	89.6	89.6	89.7	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.5	90.5	90.6	91.1
>= 2000	15.1	86.8	88.7	90.5	90.9	90.9	91.1	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.8	91.8	91.9	92.4
>= 1800	15.1	87.2	89.3	91.1	91.5	91.5	91.7	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.4	92.4	92.5	93.0
>= 1500	15.1	89.2	91.2	93.0	93.6	93.6	93.7	93.9	94.0	94.0	94.3	94.3	94.3	94.3	94.3	94.5	94.5	94.6	95.1
>= 1200	15.1	89.5	91.7	93.9	94.6	94.6	94.8	95.0	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.6	95.6	95.7	96.2
>= 1000	15.1	89.7	92.0	94.5	95.2	95.2	95.4	95.7	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.3	96.3	96.4	96.9
>= 900	15.3	90.2	92.6	95.2	95.9	95.9	96.1	96.4	96.5	96.5	96.8	96.8	96.8	96.8	96.8	97.0	97.0	97.1	97.6
>= 800	15.4	90.5	93.0	95.6	96.4	96.4	96.5	96.9	97.0	97.0	97.3	97.3	97.3	97.3	97.3	97.5	97.5	97.6	98.2
>= 700	15.4	90.6	93.2	95.9	96.9	96.9	97.0	97.4	97.5	97.5	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.1	98.7
>= 600	15.4	90.7	93.4	96.3	97.3	97.3	97.4	97.5	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.5	98.5	98.6	99.2
>= 500	15.4	90.7	93.4	96.3	97.3	97.3	97.4	97.5	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.5	98.5	98.6	99.3
>= 400	15.4	90.7	93.4	96.3	97.3	97.3	97.4	97.5	97.9	98.0	98.2	98.2	98.2	98.2	98.2	98.5	98.5	98.6	99.3
>= 300	15.4	90.7	93.4	96.3	97.4	97.4	97.5	97.6	98.1	98.2	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.8	99.5
>= 200	15.4	90.8	93.6	96.4	97.5	97.6	97.7	98.2	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.9	99.6
>= 100	15.4	90.8	93.7	96.5	97.6	97.7	97.9	98.3	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.9	98.9	99.0	99.8
>= 0	15.4	90.8	93.7	96.5	97.6	97.7	97.9	98.3	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.9	98.9	99.0	100.0

TOTAL NO. OF OBS : 839

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	11.4	58.5	60.7	61.3	61.8	61.8	62.4	62.7	62.7	63.1	63.1	63.1	63.1	63.1	63.2	63.3	63.4	63.7
>=20000	11.4	61.1	63.3	64.0	64.5	64.5	65.1	65.4	65.4	65.8	65.8	65.8	65.8	65.8	65.9	66.0	66.2	66.4
>=18000	11.4	61.3	63.6	64.3	64.7	64.7	65.3	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.2	66.3	66.4	66.6
>=16000	11.4	61.3	63.6	64.3	64.7	64.7	65.3	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.2	66.3	66.4	66.6
>=14000	11.4	61.3	63.6	64.3	64.7	64.7	65.3	65.7	65.7	66.0	66.0	66.0	66.0	66.0	66.2	66.3	66.4	66.6
>=12000	11.5	61.9	64.1	64.9	65.3	65.3	65.9	66.3	66.3	66.6	66.6	66.6	66.6	66.6	66.7	66.9	67.0	67.2
>=10000	11.5	63.9	66.3	67.0	67.5	67.5	68.0	68.4	68.4	68.8	68.8	68.8	68.8	68.8	68.9	69.0	69.1	69.3
>=9000	11.6	64.7	67.1	67.8	68.3	68.3	68.9	69.2	69.2	69.6	69.6	69.6	69.6	69.6	69.7	69.8	69.9	70.2
>=8000	12.5	69.2	71.8	72.5	73.0	73.0	73.6	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.4	74.6	74.7	74.9
>=7000	12.5	70.3	73.1	73.8	74.3	74.3	74.9	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.7	75.9	76.0	76.2
>=6000	12.5	70.5	73.4	74.1	74.6	74.6	75.1	75.5	75.5	75.9	75.9	75.9	75.9	75.9	76.0	76.1	76.2	76.4
>=5000	12.9	72.1	75.0	75.7	76.2	76.2	76.8	77.2	77.2	77.5	77.5	77.5	77.5	77.5	77.6	77.8	77.9	78.1
>=4500	13.1	73.7	76.8	77.5	78.0	78.0	78.6	78.9	78.9	79.3	79.3	79.3	79.3	79.3	79.4	79.5	79.6	79.9
>=4000	13.6	75.6	78.9	79.8	80.2	80.2	80.8	81.2	81.2	81.5	81.5	81.5	81.5	81.5	81.7	81.8	81.9	82.1
>=3500	14.0	77.4	80.8	81.7	82.1	82.1	82.7	83.1	83.1	83.4	83.4	83.4	83.4	83.4	83.6	83.7	83.8	84.0
>=3000	14.3	80.5	84.0	85.0	85.4	85.4	86.0	86.4	86.4	86.7	86.7	86.7	86.7	86.7	86.9	87.0	87.1	87.3
>=2500	14.6	82.4	86.2	87.2	87.8	87.8	88.4	88.8	88.8	89.1	89.1	89.1	89.1	89.1	89.2	89.3	89.5	89.7
>=2000	15.0	84.1	88.2	89.3	89.9	89.9	90.5	91.0	91.0	91.4	91.4	91.4	91.4	91.4	91.5	91.7	91.8	92.1
>=1800	15.0	84.4	88.4	89.6	90.2	90.2	90.8	91.2	91.2	91.6	91.6	91.6	91.6	91.6	91.7	92.0	92.1	92.3
>=1500	15.4	86.3	90.5	91.8	92.5	92.5	93.3	93.8	93.8	94.2	94.2	94.2	94.2	94.2	94.3	94.6	94.7	94.9
>=1200	15.5	87.0	91.5	92.8	93.6	93.6	94.3	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.4	95.6	95.7	96.0
>=1000	15.6	87.6	92.2	93.5	94.3	94.3	95.0	95.6	95.6	96.0	96.0	96.0	96.0	96.0	96.1	96.3	96.4	96.7
>=900	15.6	87.8	92.4	94.0	94.9	94.9	95.6	96.2	96.2	96.6	96.6	96.6	96.6	96.6	96.7	96.9	97.0	97.3
>=800	15.7	87.9	92.7	94.4	95.4	95.4	96.1	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.2	97.4	97.5	97.8
>=700	15.7	87.9	92.7	94.4	95.4	95.4	96.1	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.2	97.4	97.5	97.8
>=600	15.7	87.9	92.7	94.4	95.5	95.5	96.2	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.3	97.5	97.6	97.9
>=500	15.7	88.0	92.8	94.9	96.0	96.0	96.7	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.8	98.0	98.1	98.3
>=400	15.7	88.0	92.8	94.9	96.1	96.1	96.8	97.4	97.4	97.8	97.8	97.8	97.8	97.8	97.9	98.1	98.2	98.5
>=300	15.7	88.0	93.1	95.3	96.4	96.4	97.2	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.2	98.5	98.6	98.8
>=200	15.7	88.0	93.1	95.3	96.6	96.6	97.3	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.3	98.6	98.8	99.2
>=100	15.7	88.0	93.3	95.4	96.7	96.8	97.4	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.6	98.8	99.2	99.8
>=0	15.7	88.0	93.3	95.4	96.7	96.8	97.4	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.6	98.8	99.2	100.0

TOTAL NO. OF OBS : 845

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LA. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.3	53.9	55.3	56.4	56.6	56.6	56.7	56.7	56.7	56.9	56.9	56.9	56.9	56.9	57.1	57.1	57.3	57.3
>=20000	16.6	58.4	60.1	61.5	61.7	61.7	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.5	62.5	62.7	62.7
>=18000	16.6	58.9	60.5	62.0	62.2	62.2	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.9	62.9	63.2	63.2
>=16000	16.7	59.0	60.7	62.1	62.3	62.3	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	63.1	63.1	63.3	63.3
>=14000	16.9	59.5	61.1	62.6	62.8	62.8	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.5	63.5	63.8	63.8
>=12000	17.4	60.3	62.1	63.5	63.8	63.8	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.5	64.5	64.7	64.7
>=10000	17.6	62.0	63.8	65.3	65.6	65.6	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	66.3	66.3	66.5	66.5
>=9000	17.9	62.7	64.5	66.0	66.3	66.3	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	67.0	67.0	67.2	67.2
>=8000	19.1	66.7	68.7	70.2	70.4	70.4	70.8	70.8	70.8	70.9	71.0	71.0	71.0	71.0	71.4	71.4	71.6	71.6
>=7000	19.4	68.4	70.3	72.0	72.2	72.2	72.6	72.6	72.6	72.7	72.8	72.8	72.8	72.8	73.2	73.2	73.4	73.4
>=6000	19.4	68.7	70.6	72.3	72.6	72.6	72.9	72.9	72.9	73.1	73.2	73.2	73.2	73.2	73.5	73.5	73.8	73.8
>=5000	19.8	69.8	72.1	73.9	74.1	74.1	74.5	74.5	74.5	74.6	74.7	74.7	74.7	74.7	75.1	75.1	75.3	75.3
>=4500	20.1	70.9	73.2	75.1	75.3	75.3	75.7	75.7	75.7	75.8	75.9	75.9	75.9	75.9	76.3	76.3	76.5	76.5
>=4000	20.6	73.1	75.6	77.5	77.8	77.8	78.2	78.2	78.2	78.3	78.4	78.4	78.4	78.4	78.8	78.8	79.0	79.0
>=3500	20.9	74.9	77.5	79.4	79.7	79.7	80.1	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.7	80.7	80.9	80.9
>=3000	21.5	78.9	81.5	83.6	84.1	84.1	84.5	84.5	84.5	84.6	84.7	84.7	84.7	84.7	85.1	85.1	85.3	85.3
>=2500	21.9	80.7	83.4	85.6	86.3	86.3	86.7	86.7	86.7	86.8	86.9	86.9	86.9	86.9	87.2	87.2	87.5	87.5
>=2000	22.3	83.6	86.5	88.8	89.7	89.7	90.2	90.2	90.3	90.5	90.6	90.6	90.6	90.6	90.9	90.9	91.2	91.2
>=1800	22.3	83.6	86.5	88.8	89.7	89.7	90.2	90.2	90.3	90.5	90.6	90.6	90.6	90.6	90.9	90.9	91.2	91.2
>=1500	22.8	85.9	89.3	91.9	93.1	93.1	93.7	93.7	93.8	93.9	94.0	94.0	94.0	94.0	94.4	94.4	94.6	94.6
>=1200	22.8	86.7	90.0	92.6	93.9	93.9	94.5	94.5	94.8	94.9	95.0	95.0	95.0	95.0	95.4	95.4	95.6	95.6
>=1000	22.9	87.5	90.9	93.6	94.9	94.9	95.6	95.6	95.8	95.9	96.1	96.1	96.1	96.1	96.4	96.4	96.7	96.7
>=900	22.9	87.6	91.1	93.7	95.0	95.0	95.9	95.9	96.2	96.3	96.4	96.4	96.4	96.4	96.8	96.8	97.0	97.0
>=800	23.0	88.2	91.8	94.6	95.9	95.9	96.1	96.1	96.4	96.5	96.6	96.6	96.6	96.6	96.8	96.8	97.0	97.0
>=700	23.1	88.4	92.0	94.9	96.3	96.3	96.4	96.4	96.7	96.8	96.9	96.9	96.9	96.9	97.1	97.1	97.3	97.3
>=600	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=500	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=400	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=300	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=200	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=100	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4
>=0	23.1	88.6	92.1	95.1	96.5	96.5	96.7	96.7	96.8	96.9	97.0	97.0	97.0	97.0	97.2	97.2	97.4	97.4

TOTAL NO. OF OBS : 839

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	18.6	55.8	56.5	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
>=20000	18.7	62.5	63.7	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
>=18000	18.7	63.4	64.6	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
>=16000	18.7	63.5	64.7	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
>=14000	18.9	64.0	65.2	65.5	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
>=12000	19.3	65.1	66.3	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
>=10000	19.9	67.0	68.4	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
>= 9000	20.5	68.3	69.8	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
>= 8000	21.6	71.8	73.4	73.7	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
>= 7000	21.8	73.4	75.1	75.5	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
>= 6000	21.9	73.9	75.7	76.1	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
>= 5000	22.7	75.7	77.5	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
>= 4500	22.8	76.0	77.8	78.4	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
>= 4000	23.7	78.1	80.0	80.6	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
>= 3500	24.0	79.0	81.0	81.6	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
>= 3000	25.2	82.9	84.9	85.8	86.1	86.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
>= 2500	26.0	85.8	88.1	88.9	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
>= 2000	26.6	88.8	91.2	92.0	92.4	92.4	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>= 1800	26.7	89.3	91.7	92.5	92.9	92.9	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
>= 1500	27.2	91.0	93.7	94.6	95.1	95.1	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
>= 1200	27.5	91.6	94.7	95.5	96.0	96.0	96.5	96.5	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7
>= 1000	27.6	92.4	95.5	96.4	96.9	96.9	97.3	97.3	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6
>= 900	27.6	92.5	95.7	96.5	97.0	97.0	97.6	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8
>= 800	27.6	92.7	95.9	96.9	97.3	97.3	98.2	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4
>= 700	27.7	92.8	96.0	97.1	97.6	97.6	98.6	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8
>= 600	27.7	92.8	96.0	97.2	97.8	98.0	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
>= 500	27.7	92.9	96.1	97.5	98.1	98.2	99.0	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.5	99.5
>= 400	27.7	92.9	96.1	97.5	98.1	98.2	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
>= 300	27.7	92.9	96.1	97.5	98.1	98.2	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
>= 200	27.7	92.9	96.1	97.5	98.1	98.2	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
>= 100	27.7	92.9	96.1	97.5	98.1	98.2	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
>= 0	27.7	92.9	96.1	97.5	98.1	98.2	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 830



013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.7	58.4	58.9	59.3	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
>=20000	22.1	65.2	65.9	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
>=18000	22.1	66.0	66.7	67.2	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
>=16000	22.1	66.1	66.9	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>=14000	22.3	66.6	67.4	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
>=12000	22.3	66.6	67.5	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
>=10000	23.2	69.1	69.9	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
>=9000	23.7	70.4	71.2	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>=8000	24.0	74.0	75.0	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
>=7000	25.2	76.7	77.7	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
>=6000	25.5	77.2	78.2	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
>=5000	25.7	77.9	78.9	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>=4500	26.1	78.6	79.7	80.5	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
>=4000	26.8	80.3	81.6	82.4	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
>=3500	27.2	81.8	83.1	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
>=3000	28.2	85.4	86.9	87.9	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
>=2500	29.0	87.9	89.4	90.7	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
>=2000	29.4	89.8	91.5	92.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
>=1800	29.4	90.2	91.9	93.1	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>=1500	30.1	92.5	94.5	95.8	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>=1200	30.5	93.1	95.3	96.5	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=1000	30.7	93.8	96.2	97.5	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=900	30.7	93.8	96.2	97.5	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=800	30.7	93.9	96.5	97.8	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>=700	30.9	94.2	96.7	98.1	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=600	30.9	94.2	96.7	98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>=500	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=400	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=300	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=200	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=100	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=0	31.1	94.4	97.0	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NO. OF OBS : 824

013025 : POTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.5	59.5	60.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
>=20000	21.9	66.1	67.6	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
>=18000	21.9	66.9	68.3	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
>=16000	22.0	67.1	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
>=14000	22.1	67.2	68.7	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
>=12000	22.4	67.7	69.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
>=10000	23.1	69.6	71.1	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>= 9000	23.8	71.3	73.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
>= 8000	24.9	75.7	77.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
>= 7000	25.8	77.5	79.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
>= 6000	26.0	77.9	79.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
>= 5000	26.0	78.4	80.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>= 4500	26.0	78.6	80.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
>= 4000	26.7	80.9	83.3	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
>= 3500	27.4	82.5	85.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>= 3000	27.9	85.2	88.1	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
>= 2500	28.0	86.6	89.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>= 2000	29.2	89.5	92.9	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 1800	29.2	89.6	93.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>= 1500	29.7	91.2	94.6	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 1200	29.8	92.3	95.8	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>= 1000	30.1	93.3	96.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 900	30.1	93.3	96.9	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 800	30.1	93.3	97.2	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 700	30.1	93.4	97.3	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 600	30.1	93.6	97.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 500	30.1	93.6	97.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 400	30.1	93.6	97.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 300	30.1	93.6	97.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 200	30.1	93.6	97.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 100	30.1	93.6	97.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	30.1	93.6	97.6	99.1	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 818

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.4	66.4	68.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4
>=20000	14.4	69.8	71.6	72.5	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0
>=18000	14.4	70.4	72.2	73.1	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.6
>=16000	14.4	70.4	72.2	73.1	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.6
>=14000	14.6	70.7	72.5	73.5	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0
>=12000	14.9	71.2	73.0	74.0	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.5
>=10000	15.1	73.0	74.9	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.4
>= 9000	15.5	74.0	75.9	76.9	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3
>= 8000	16.2	77.6	79.5	80.5	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
>= 7000	16.7	79.4	81.5	82.6	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1
>= 6000	16.8	79.5	81.8	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.3
>= 5000	16.8	80.7	83.1	84.2	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.7
>= 4500	16.9	81.3	83.7	84.8	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.3
>= 4000	17.3	83.8	86.5	87.5	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0
>= 3500	17.5	84.9	87.5	88.7	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2
>= 3000	17.9	87.5	90.2	91.4	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8
>= 2500	18.1	89.4	92.3	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1
>= 2000	18.6	91.4	94.5	95.8	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
>= 1800	18.6	91.5	94.6	95.9	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4
>= 1500	18.7	92.2	95.7	97.0	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
>= 1200	18.7	92.8	96.3	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2
>= 1000	18.7	93.2	96.9	98.2	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9
>= 900	18.7	93.3	97.0	98.3	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2
>= 800	18.7	93.3	97.1	98.6	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
>= 700	18.7	93.4	97.2	98.7	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
>= 600	18.7	93.4	97.2	98.7	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
>= 500	18.7	93.5	97.4	98.8	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>= 400	18.7	93.5	97.4	98.8	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>= 300	18.7	93.5	97.4	98.8	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
>= 200	18.7	93.5	97.4	98.8	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
>= 100	18.7	93.5	97.4	98.8	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0
>= 0	18.7	93.5	97.4	98.8	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NO. OF OBS : 834

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAR  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.3	60.2	61.6	62.4	62.5	62.6	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.9	62.9	63.0	63.1
>=20000	16.4	64.7	66.2	67.1	67.3	67.4	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.8	67.9
>=18000	16.4	65.2	66.7	67.6	67.8	67.9	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.3	68.4
>=16000	16.5	65.3	66.8	67.7	67.9	68.0	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.4	68.5
>=14000	16.7	65.6	67.1	68.0	68.2	68.3	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.7	68.8
>=12000	16.8	66.1	67.7	68.6	68.7	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.2	69.2	69.4
>=10000	17.2	68.0	69.7	70.7	70.8	70.9	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.2	71.3	71.3	71.5
>= 9000	17.6	69.2	70.9	71.8	72.0	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.5	72.7
>= 8000	18.4	73.0	74.8	75.8	76.0	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.5	76.6
>= 7000	18.9	74.7	76.6	77.7	77.8	77.9	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.4	78.5
>= 6000	19.0	75.0	77.0	78.1	78.3	78.4	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.8	78.9
>= 5000	19.2	76.3	78.3	79.4	79.6	79.8	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.2	80.3
>= 4500	19.3	77.1	79.2	80.4	80.6	80.7	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.1	81.2
>= 4000	19.9	79.4	81.6	82.8	83.1	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.5	83.6	83.6	83.8
>= 3500	20.2	80.7	83.0	84.2	84.5	84.7	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	85.0	85.0	85.1	85.2
>= 3000	20.7	83.7	86.2	87.5	87.8	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.4	88.6
>= 2500	21.1	85.8	88.5	89.8	90.2	90.3	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.7	90.7	90.8	91.0
>= 2000	21.5	87.9	90.7	92.2	92.6	92.8	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.3	93.4
>= 1800	21.6	88.2	91.0	92.4	92.9	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.5	93.5	93.6	93.7
>= 1500	21.9	89.9	92.9	94.5	95.1	95.3	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.8	95.9
>= 1200	22.0	90.5	93.7	95.3	95.9	96.0	96.2	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.6	96.6	96.7	96.8
>= 1000	22.1	91.1	94.4	96.1	96.7	96.8	97.0	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.6	97.7
>= 900	22.1	91.2	94.6	96.3	97.0	97.3	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.9	98.0
>= 800	22.2	91.4	94.9	96.8	97.4	97.5	97.9	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.5	98.6
>= 700	22.2	91.6	95.1	97.0	97.7	97.8	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.6	98.7	98.7	98.9
>= 600	22.2	91.6	95.2	97.1	97.9	98.0	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.9	98.9	99.0	99.1
>= 500	22.3	91.7	95.3	97.3	98.1	98.2	98.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.2	99.4
>= 400	22.3	91.7	95.3	97.3	98.1	98.2	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.1	99.2	99.2	99.3	99.5
>= 300	22.3	91.7	95.3	97.3	98.2	98.3	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.2	99.3	99.3	99.4	99.6
>= 200	22.3	91.7	95.3	97.3	98.2	98.3	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.3	99.4	99.4	99.5	99.7
>= 100	22.3	91.7	95.3	97.4	98.2	98.4	98.8	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.4	99.5	99.6	99.9
>= 0	22.3	91.7	95.3	97.4	98.2	98.4	98.8	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.4	99.5	99.6	100.0

TOTAL NO. OF OBS : 6677

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND SPEED
N	1.5	1.9	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.5
NNE	.5	1.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.1
NE	1.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.5
ENE	2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	2.9
E	6.6	3.7	1.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	4.3
ESE	1.8	2.0	2.3	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	8.1
SE	.8	1.1	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.9
SSE	.6	.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.0
S	.8	1.1	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.9
SSW	.8	1.2	1.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.9
SW	.8	1.3	1.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.6
WSW	1.5	1.4	1.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.6
W	3.0	3.1	3.3	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	6.4
WNW	.8	2.0	2.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.0
NW	1.7	2.6	3.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	6.6
NNW	1.3	2.5	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	6.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0
ALL	25.9	28.4	22.3	10.4	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.4

TOTAL NO. OF OBS : 839

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56							
N	1.8	3.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	4.7				
NNE	1.5	2.0	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.1				
NE	2.1	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4.0				
ENE	5.1	4.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	3.4				
E	7.1	6.8	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	15.7	4.2				
ESE	1.3	1.8	.8	1.0	.1	.2	.0	.0	.0	.0	.0	.0	5.2	7.8				
SE	1.1	.2	.7	.8	.1	.0	.0	.0	.0	.0	.0	.0	3.0	7.5				
SSE	.2	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.9				
S	.6	1.1	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.0				
SSW	.4	.6	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.4				
SW	.8	.7	1.2	1.4	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.8				
WSW	.8	1.0	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	3.7	7.6				
W	.4	1.9	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	5.0	7.5				
WNW	1.5	1.7	2.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	6.4	6.6				
NW	1.5	3.1	2.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.8				
NNW	1.9	2.7	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	6.2	5.2				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0				
ALL	28.3	33.7	19.3	8.0	.7	.2	.0	.0	.0	.0	.0	.0	100.0	5.1				

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0700 LST

013025 :  
 PERIOD OF  
 CLASS : A  
 CONDITION

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL %	MEAN WIND SPEED
N	2.9	2.7	1.4	.1	.0	.0	.0	.0	.0	.0	.0	7.1	4.7
NNE	1.8	3.0	1.3	.4	.1	.0	.0	.0	.0	.0	.0	6.5	5.7
NE	2.3	4.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	7.3	4.4
ENE	4.4	5.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	10.1	3.8
E	8.1	7.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	16.3	3.8
ESE	.6	1.7	.8	.5	.0	.2	.0	.0	.0	.0	.0	3.9	7.7
SE	.5	.7	.8	.5	.2	.0	.0	.0	.0	.0	.0	2.7	8.0
SSE	.4	.4	.1	.6	.0	.0	.0	.0	.0	.0	.0	1.4	7.4
S	.0	1.1	1.0	.4	.0	.0	.0	.0	.0	.0	.0	2.4	7.5
SSW	.5	.6	1.4	.1	.0	.0	.0	.0	.0	.0	.0	2.6	7.0
SW	.1	1.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	2.3	8.5
WSW	.2	1.1	1.2	.7	.0	.0	.0	.0	.0	.0	.0	3.2	8.1
W	.5	1.3	1.3	.7	.1	.0	.0	.0	.0	.0	.0	4.0	8.3
WNW	1.0	1.7	1.8	.7	.0	.1	.0	.0	.0	.0	.0	5.2	6.9
NW	1.9	2.5	2.1	.6	.0	.0	.0	.0	.0	.0	.0	7.1	5.9
NNW	2.5	2.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	6.0	4.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	.0
ALL	27.5	36.3	16.9	6.7	.5	.5	.0	.0	.0	.0	.0	100.0	4.8

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

NOTES :  
 \* = P

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	1.0	2.3	2.5	2.5	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.7
NNE	.8	3.5	2.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	7.0
NE	1.0	3.5	3.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	7.3
ENE	1.3	3.3	1.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	5.5
E	1.9	3.5	2.3	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	6.7
ESE	.7	1.3	1.1	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	9.0
SE	1.1	1.0	1.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.1
SSE	1.0	1.4	.8	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.3
S	.6	1.8	2.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.2
SSW	.8	1.6	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.0
SW	.4	1.0	1.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	8.7
WSW	.4	.6	1.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.5
W	1.0	3.5	3.7	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	7.6
WNW	.4	1.8	2.5	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	8.4
NW	.5	1.7	2.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.4
NNW	.2	1.6	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0
ALL	12.9	33.1	32.2	15.3	2.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.2

TOTAL NO. OF OBS : 838

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

G13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N		.4		1.3		1.1		.1		.0		.0		.0		.0		.0		.0	2.9	6.3
NNE		.0		1.2		1.8		.7		.5		.0		.0		.0		.0		.0	4.2	9.6
NE		.2		.4		1.6		1.3		.2		.0		.0		.0		.0		.0	3.7	9.8
ENE		.1		1.4		1.6		.4		.1		.0		.0		.0		.0		.0	3.6	7.8
E	1.1			1.2		1.2		.8		.6		.0		.0		.0		.0		.0	4.9	8.5
ESE	.0			.7		1.4		2.5		.6		.1		.0		.0		.0		.0	5.4	11.9
SE	.1			.5		.8		1.3		.4		.1		.0		.0		.0		.0	3.2	11.6
SSE	.0			1.0		.8		.6		.2		.0		.0		.0		.0		.0	2.6	10.2
S	1.0			4.4		3.1		1.8		.1		.0		.0		.0		.0		.0	10.4	7.4
SSW	.5			3.8		3.7		1.1		.1		.0		.0		.0		.0		.0	9.2	7.5
SW	.2			2.6		2.4		1.2		.2		.0		.0		.0		.0		.0	6.7	8.1
WSW	.4			2.5		4.2		1.3		.1		.1		.0		.0		.0		.0	8.6	8.3
W	.5			6.2		9.6		5.0		.1		.0		.0		.0		.0		.0	21.4	8.4
WNW	.4			.6		3.8		3.1		.1		.0		.0		.0		.0		.0	8.0	10.0
NW	.0			.4		1.3		.7		.0		.0		.0		.0		.0		.0	2.4	9.3
NNW	.0			.1		.6		.5		.1		.0		.0		.0		.0		.0	1.3	10.9
VAR	.0			.0		.0		.0		.0		.0		.0		.0		.0		.0	.0	.0
CLM	.0			.0		.0		.0		.0		.0		.0		.0		.0		.0	1.4	.0
ALL	4.8			28.3		39.0		22.5		3.6		.4		.0		.0		.0		.0	100.0	8.6

TOTAL NO. OF OBS : 836

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	31	4	61	7-101	11-161	17-211	22-271	28-331	34-401	41-471	48-551	>561	TOTAL %	MEAN WIND SPEED
N	.0	.4	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	9.3
NNE	.1	.4	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	9.5
NE	.2	.7	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.7
ENE	.1	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	8.8
E	.0	.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	13.1
ESE	.0	.2	1.4	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	13.0
SE	.0	.4	1.3	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.9	12.0
SSE	.1	.5	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	9.1
S	.1	1.8	2.7	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	9.1
SSW	.6	2.3	3.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	8.0
SW	.2	1.9	4.9	3.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.8	9.5
WSW	.5	3.3	6.0	4.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	14.5	9.2
W	.6	5.0	12.5	11.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	29.6	9.8
WNW	.0	.8	4.3	3.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	8.7	10.7
NW	.1	.4	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.0
NNW	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	8.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
ALL	2.9	18.4	42.1	33.0	2.9	.4	.0	.0	.0	.0	.0	.0	.0	100.0	9.7

TOTAL NO. OF OBS : 837

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL >=56	MEAN % WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55								
N	.0	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.3
NNE	.1	.5	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.4
NE	.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	10.4
ENE	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.0
E	.0	.0	.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	14.4
ESE	.4	.7	1.8	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	10.7
SE	.0	.5	1.9	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	11.1
SSE	.0	1.2	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.7
S	1.2	1.8	1.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	7.0
SSW	.4	1.9	2.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.2
SW	.7	2.9	5.1	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.6	8.2
WSW	1.0	3.8	7.1	4.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.2	8.7
W	.8	5.7	13.6	10.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.8	9.3
WNW	.4	2.6	5.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	8.0
NW	.4	1.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.6
NNW	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
ALL	5.4	23.8	43.3	25.2	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.7

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

Q13025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>55							
N	1.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.9	3.5					
NNE	.7	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0					
NE	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.0					
ENE	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.6					
E	1.3	2.1	1.2	.6	.0	.0	.0	.0	.0	.0	.0	5.3	6.1					
ESE	1.2	1.8	2.1	1.9	.6	.0	.0	.0	.0	.0	.0	7.6	8.7					
SE	.5	1.7	1.2	1.2	.0	.1	.0	.0	.0	.0	.0	4.7	8.1					
SSE	.5	1.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.9	6.3					
S	1.0	1.1	1.3	.5	.0	.0	.0	.0	.0	.0	.0	3.8	6.6					
SSW	.7	.8	1.3	.6	.0	.0	.0	.0	.0	.0	.0	3.5	6.9					
SW	1.7	2.7	1.6	1.3	.0	.0	.0	.0	.0	.0	.0	7.3	6.4					
WSW	.7	3.8	3.9	1.2	.0	.0	.0	.0	.0	.0	.0	9.7	7.1					
W	2.7	7.9	6.6	3.5	.2	.0	.0	.0	.0	.0	.0	20.9	7.3					
WNW	2.3	3.8	2.3	.7	.1	.0	.0	.0	.0	.0	.0	9.2	5.8					
NW	1.3	3.2	1.0	.5	.0	.0	.0	.0	.0	.0	.0	6.0	5.4					
NNW	1.0	1.2	.6	.4	.0	.0	.0	.0	.0	.0	.0	3.1	5.4					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0					
ALL	18.5	34.4	24.6	12.5	1.0	.1	.0	.0	.0	.0	.0	100.0	6.0					

TOTAL NO. OF OBS : 838

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
SPEED (KNOTS)																	
N	1.1	1.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.5
NNE	.7	1.7	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.6
NE	1.0	1.5	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.2
ENE	1.7	2.0	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.5
E	3.3	3.1	1.1	.6	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	5.4
ESE	.7	1.3	1.5	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	9.5
SE	.5	.7	1.2	1.1	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	9.3
SSE	.3	.8	.7	.6	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.9
S	.7	1.8	1.8	.9	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.5
SSW	.6	1.6	1.9	.7	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.3
SW	.6	1.8	2.2	1.5	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	8.2
WSW	.7	2.2	3.4	1.7	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.2
W	1.2	4.3	6.6	4.3	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.5	8.5
WNW	.8	1.9	3.0	1.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	8.0
NW	.9	1.8	1.9	.6	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.7
NNW	.9	1.4	.9	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0
ALL	15.8	29.5	29.9	16.7	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.9

TOTAL NO. OF OBS : 6708

NOTES : \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	>=0
UNLIMIT	17.7	68.4	69.5	70.5	70.7	70.7	70.7	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
>=20000	17.7	71.1	72.3	73.3	73.7	73.7	73.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1
>=18000	17.7	72.6	73.8	74.8	75.2	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6
>=16000	17.7	72.7	74.0	74.9	75.3	75.3	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7
>=14000	17.7	72.7	74.0	74.9	75.3	75.3	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7
>=12000	17.8	73.3	74.6	75.6	75.9	75.9	75.9	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3
>=10000	18.1	74.4	75.7	76.7	77.0	77.0	77.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4
>=9000	18.1	75.1	76.3	77.3	77.7	77.7	77.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0
>=8000	18.6	79.0	80.4	81.4	81.7	81.7	81.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1
>=7000	18.9	80.1	81.9	82.8	83.2	83.2	83.2	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.6	83.6
>=6000	18.9	80.4	82.1	83.1	83.5	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8
>=5000	19.1	81.9	83.7	84.7	85.1	85.1	85.1	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.6	85.6
>=4500	19.1	82.6	84.4	85.4	85.8	85.8	85.8	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3
>=4000	19.4	84.2	86.0	87.0	87.4	87.4	87.4	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.9	87.9
>=3500	19.4	85.1	87.0	88.0	88.4	88.4	88.4	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9
>=3000	19.8	88.1	90.1	91.1	91.5	91.5	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0
>=2500	20.1	90.7	92.8	94.0	94.3	94.3	94.3	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8
>=2000	20.5	92.3	94.4	95.6	95.9	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4
>=1800	20.5	92.7	94.8	95.9	96.3	96.3	96.3	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.8	96.8
>=1500	20.5	93.0	95.3	96.4	96.9	96.9	96.9	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4
>=1200	20.7	93.7	96.2	97.3	97.8	97.8	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3
>=1000	20.9	94.1	96.5	97.8	98.3	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8
>=900	20.9	94.1	96.7	97.9	98.4	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
>=800	20.9	94.3	96.9	98.3	98.8	98.8	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.3	99.3
>=700	20.9	94.8	97.4	98.8	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>=600	20.9	94.8	97.4	98.8	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>=500	20.9	94.8	97.4	98.8	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>=400	20.9	94.8	97.4	98.8	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>=300	20.9	94.8	97.4	98.8	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>=200	20.9	94.8	97.4	98.8	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>=100	20.9	94.8	97.4	98.8	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>=0	20.9	94.8	97.4	98.8	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0

TOTAL NO. OF OBS : 810

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8
UNLIMIT	14.1	62.5	64.0	64.9	65.3	65.3	65.4	65.4	65.6	65.8	65.9	66.1	66.3	66.3	66.3	66.4
>=20000	14.1	65.2	67.1	68.0	68.3	68.3	68.5	68.7	68.8	69.0	69.0	69.2	69.3	69.3	69.3	69.4
>=18000	14.1	65.5	67.5	68.3	68.7	68.7	68.8	69.0	69.1	69.2	69.3	69.4	69.4	69.7	69.7	69.8
>=16000	14.1	65.6	67.6	68.5	68.8	68.8	69.0	69.2	69.2	69.3	69.4	69.4	69.7	69.8	69.8	69.9
>=14000	14.1	65.6	67.6	68.5	68.8	68.8	69.0	69.2	69.3	69.3	69.4	69.4	69.7	69.8	69.8	69.9
>=12000	14.1	66.6	68.6	69.4	69.8	69.8	69.9	70.2	70.3	70.4	70.4	70.7	70.8	70.8	70.8	71.0
>=10000	14.5	68.0	70.1	70.9	71.3	71.3	71.4	71.7	71.8	71.9	71.9	72.1	72.3	72.3	72.4	72.5
>=9000	14.5	68.3	70.6	71.4	71.8	71.8	71.9	72.1	72.3	72.4	72.4	72.6	72.8	72.8	72.9	73.0
>=8000	14.7	71.9	74.4	75.2	75.6	75.6	75.7	76.0	76.1	76.2	76.2	76.4	76.6	76.6	76.7	76.8
>=7000	14.7	73.9	76.6	77.5	77.9	77.9	78.0	78.3	78.4	78.4	78.5	78.8	78.9	78.9	79.0	79.1
>=6000	14.8	74.1	76.9	77.9	78.3	78.3	78.4	78.7	78.8	78.9	78.9	79.1	79.3	79.3	79.4	79.5
>=5000	15.1	75.2	78.0	79.0	79.4	79.4	79.5	79.8	79.9	80.0	80.0	80.2	80.4	80.4	80.5	80.6
>=4500	15.1	76.3	79.1	80.1	80.5	80.5	80.6	80.9	81.0	81.1	81.1	81.3	81.5	81.5	81.6	81.7
>=4000	16.0	78.8	81.7	82.7	83.1	83.1	83.2	83.4	83.6	83.7	83.7	83.9	84.0	84.0	84.2	84.3
>=3500	16.2	79.8	82.7	83.8	84.2	84.2	84.3	84.5	84.7	84.8	85.0	85.2	85.2	85.2	85.3	85.4
>=3000	16.4	82.7	86.0	87.1	87.5	87.5	87.6	87.9	88.0	88.1	88.1	88.3	88.5	88.5	88.6	88.7
>=2500	17.1	86.0	89.9	91.2	91.5	91.5	91.7	91.9	92.0	92.1	92.1	92.4	92.5	92.5	92.6	92.8
>=2000	17.3	88.0	92.3	93.6	94.0	94.0	94.1	94.4	94.5	94.6	94.6	94.8	95.0	95.0	95.1	95.2
>=1800	17.3	88.2	92.5	93.9	94.2	94.2	94.4	94.6	94.7	94.8	95.1	95.2	95.2	95.2	95.3	95.5
>=1500	17.3	89.1	93.6	95.0	95.3	95.3	95.5	95.7	95.8	96.0	96.0	96.2	96.3	96.3	96.4	96.6
>=1200	17.7	89.6	94.2	95.6	96.0	96.0	96.1	96.3	96.4	96.6	96.6	96.8	96.9	96.9	97.1	97.2
>=1000	17.8	90.2	95.0	96.3	96.7	96.7	96.8	97.2	97.3	97.5	97.5	97.8	97.9	97.9	98.0	98.2
>=900	17.8	90.3	95.2	96.6	96.9	96.9	97.1	97.4	97.5	97.8	97.8	98.0	98.2	98.2	98.3	98.4
>=800	17.8	90.6	95.5	97.1	97.5	97.5	97.8	98.2	98.3	98.5	98.5	98.8	98.9	98.9	99.0	99.1
>=700	17.8	90.7	95.6	97.2	97.7	97.7	97.9	98.3	98.4	98.7	98.7	98.9	99.0	99.0	99.1	99.3
>=600	17.8	90.9	95.8	97.4	97.9	98.0	98.3	98.7	98.8	99.0	99.0	99.3	99.4	99.4	99.5	99.6
>=500	17.8	90.9	95.8	97.4	97.9	98.0	98.3	98.7	98.8	99.0	99.0	99.3	99.4	99.4	99.5	99.6
>=400	17.8	90.9	95.8	97.5	98.0	98.2	98.4	98.8	98.9	99.3	99.3	99.5	99.6	99.6	99.8	99.9
>=300	17.8	90.9	95.8	97.5	98.0	98.2	98.4	98.8	98.9	99.3	99.3	99.5	99.6	99.6	99.8	99.9
>=200	17.8	90.9	95.8	97.5	98.0	98.2	98.4	98.8	98.9	99.3	99.3	99.5	99.6	99.6	99.8	99.9
>=100	17.8	90.9	95.8	97.5	98.0	98.2	98.4	98.8	98.9	99.3	99.3	99.5	99.6	99.6	99.8	99.9
>=0	17.8	90.9	95.8	97.5	98.0	98.2	98.4	98.8	98.9	99.3	99.3	99.5	99.6	99.6	99.8	100.0

TOTAL NO. OF OBS : 815

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.8	50.0	52.0	53.9	54.8	55.1	55.9	56.5	56.5	56.7	56.9	56.9	56.9	56.9	57.0	57.1	57.1	57.6
>=20000	15.8	53.1	55.1	57.2	58.1	58.5	59.2	59.8	59.8	60.0	60.2	60.2	60.2	60.2	60.3	60.4	60.5	61.0
>=18000	15.8	53.3	55.5	57.6	58.5	58.8	59.6	60.2	60.2	60.4	60.5	60.5	60.5	60.5	60.7	60.8	60.9	61.4
>=16000	15.8	53.3	55.5	57.6	58.5	58.8	59.6	60.2	60.2	60.4	60.5	60.5	60.5	60.5	60.7	60.8	60.9	61.4
>=14000	15.8	53.4	55.6	57.7	58.6	58.9	59.7	60.3	60.3	60.5	60.7	60.7	60.7	60.7	60.8	60.9	61.0	61.5
>=12000	15.9	54.0	56.3	58.3	59.2	59.6	60.3	60.9	60.9	61.2	61.3	61.3	61.3	61.3	61.4	61.5	61.6	62.1
>=10000	16.4	55.9	58.1	60.2	61.0	61.4	62.1	62.7	62.7	63.0	63.1	63.1	63.1	63.1	63.2	63.4	63.5	64.0
>= 9000	16.5	56.6	58.8	61.2	62.0	62.4	63.1	63.7	63.7	64.0	64.1	64.1	64.1	64.1	64.2	64.3	64.5	65.0
>= 8000	17.2	61.9	64.5	66.9	67.9	68.3	69.0	69.6	69.6	69.9	70.1	70.1	70.1	70.1	70.2	70.3	70.5	71.0
>= 7000	17.3	63.2	66.1	68.8	69.9	70.3	71.1	71.7	71.7	71.9	72.2	72.2	72.2	72.2	72.3	72.4	72.5	73.0
>= 6000	17.3	63.5	66.3	69.0	70.1	70.6	71.3	71.9	71.9	72.2	72.4	72.4	72.4	72.4	72.5	72.7	72.8	73.3
>= 5000	17.8	64.7	67.5	70.2	71.3	71.8	72.5	73.2	73.2	73.4	73.7	73.7	73.7	73.7	73.8	73.9	74.0	74.5
>= 4500	17.9	65.7	68.5	71.2	72.3	72.8	73.5	74.1	74.1	74.4	74.6	74.6	74.6	74.6	74.8	74.9	75.0	75.5
>= 4000	18.4	68.1	71.0	73.8	74.9	75.4	76.1	76.7	76.7	77.0	77.2	77.2	77.2	77.2	77.3	77.5	77.6	78.1
>= 3500	18.6	69.6	72.4	75.4	76.5	77.0	77.7	78.3	78.3	78.6	78.8	78.8	78.8	78.8	78.9	79.0	79.2	79.7
>= 3000	19.2	74.4	77.3	80.3	81.4	81.9	82.7	83.3	83.3	83.6	83.8	83.8	83.8	83.8	83.9	84.2	84.3	84.8
>= 2500	20.0	77.5	80.8	84.2	85.3	85.8	86.6	87.3	87.3	87.5	87.7	87.7	87.7	87.7	87.9	88.1	88.2	88.7
>= 2000	20.2	79.9	83.6	87.1	88.6	89.2	90.2	90.8	90.8	91.1	91.3	91.3	91.3	91.3	91.4	91.7	91.8	92.3
>= 1800	20.2	80.4	84.1	87.6	89.1	89.7	90.7	91.3	91.3	91.5	91.8	91.8	91.8	91.8	91.9	92.2	92.3	92.8
>= 1500	20.3	82.6	86.4	90.3	91.8	92.4	93.4	94.0	94.0	94.2	94.5	94.5	94.5	94.5	94.6	94.9	95.0	95.5
>= 1200	20.3	82.8	87.0	91.3	92.8	93.4	94.5	95.1	95.1	95.3	95.6	95.6	95.6	95.6	95.7	96.0	96.1	96.6
>= 1000	20.3	83.2	87.5	91.8	93.3	93.9	95.1	95.7	95.7	96.1	96.3	96.3	96.3	96.3	96.4	96.7	96.8	97.3
>= 900	20.3	83.3	87.6	92.0	93.5	94.1	95.3	96.0	96.0	96.3	96.6	96.6	96.6	96.6	96.7	96.9	97.1	97.5
>= 800	20.5	83.6	88.0	92.4	93.9	94.5	95.7	96.3	96.3	96.7	96.9	96.9	96.9	96.9	97.1	97.3	97.4	97.9
>= 700	20.5	83.8	88.4	92.8	94.2	94.9	96.1	96.7	96.7	97.1	97.3	97.3	97.3	97.3	97.4	97.7	97.9	98.4
>= 600	20.5	83.9	88.5	93.0	94.5	95.1	96.3	96.9	96.9	97.3	97.5	97.5	97.5	97.5	97.7	97.9	98.2	98.7
>= 500	20.5	83.9	88.5	93.0	94.5	95.1	96.3	96.9	96.9	97.3	97.5	97.5	97.5	97.5	97.7	97.9	98.2	98.7
>= 400	20.5	84.1	88.6	93.1	94.7	95.3	96.6	97.3	97.3	97.7	97.9	97.9	97.9	97.9	98.0	98.4	98.7	99.1
>= 300	20.5	84.1	88.6	93.3	94.9	95.5	96.7	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.2	98.5	98.8	99.4
>= 200	20.5	84.1	88.6	93.3	94.9	95.5	96.7	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.2	98.5	98.8	99.5
>= 100	20.5	84.1	88.6	93.3	94.9	95.5	96.7	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.2	98.5	98.8	99.8
>= 0	20.5	84.1	88.6	93.3	94.9	95.5	96.7	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.2	98.5	98.8	100.0

TOTAL NO. OF OBS : 816



013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	23.1	53.6	54.8	55.4	55.4	55.5	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9
>=20000	23.8	58.5	59.8	60.6	60.7	60.9	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3
>=18000	24.0	60.0	61.3	62.0	62.2	62.4	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8
>=16000	24.0	60.1	61.4	62.2	62.3	62.5	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9
>=14000	24.0	60.3	61.7	62.4	62.5	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1
>=12000	24.6	61.4	62.8	63.5	63.6	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.3	64.3	64.3	64.3
>=10000	24.8	63.6	65.0	65.8	66.0	66.2	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6
>=9000	25.3	65.2	66.6	67.4	67.6	67.8	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2
>=8000	26.2	70.6	72.0	73.2	73.3	73.6	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1
>=7000	26.4	72.1	73.6	74.8	75.1	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8
>=6000	26.5	72.2	73.7	74.9	75.3	75.6	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
>=5000	26.9	73.2	74.7	75.9	76.3	76.5	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0
>=4500	27.3	73.8	75.4	76.8	77.1	77.4	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	77.9
>=4000	27.5	75.4	77.3	78.9	79.2	79.5	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.0	80.0	80.0	80.0
>=3500	27.5	76.9	78.7	80.3	80.8	81.1	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7
>=3000	28.6	80.5	82.3	84.2	84.8	85.0	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7
>=2500	29.9	83.9	85.7	87.6	88.2	88.5	88.9	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.4	89.4
>=2000	30.3	87.0	89.2	91.0	91.8	92.1	92.6	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1
>=1800	30.3	87.2	89.4	91.3	92.0	92.4	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.4	93.4	93.5	93.5
>=1500	31.0	89.2	91.8	93.9	94.6	95.0	95.6	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.2	96.2	96.3	96.3
>=1200	31.0	89.6	92.1	94.3	95.1	95.5	96.1	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.8	96.8
>=1000	31.0	90.3	93.0	95.3	96.2	96.6	97.2	97.5	97.5	97.7	97.7	97.7	97.7	97.8	97.9	97.9	98.0	98.0
>=900	31.0	90.5	93.2	95.6	96.4	96.8	97.4	97.8	97.8	97.9	97.9	97.9	97.9	98.0	98.2	98.2	98.3	98.3
>=800	31.0	90.7	93.4	95.7	96.7	97.1	97.8	98.3	98.3	98.4	98.4	98.4	98.4	98.5	98.6	98.6	98.8	98.8
>=700	31.1	90.9	93.6	95.9	96.9	97.3	98.0	98.5	98.5	98.6	98.6	98.6	98.6	98.8	98.9	98.9	99.0	99.0
>=600	31.1	91.0	93.7	96.1	97.1	97.4	98.3	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.1	99.1	99.3	99.3
>=500	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.1	99.1	99.1	99.1	99.3	99.5	99.5	99.6	99.6
>=400	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.3	99.3	99.3	99.4	99.5	99.8	99.8	100.0	100.0
>=300	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.3	99.3	99.3	99.4	99.5	99.8	99.8	100.0	100.0
>=200	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.3	99.3	99.3	99.4	99.5	99.8	99.8	100.0	100.0
>=100	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.3	99.3	99.3	99.4	99.5	99.8	99.8	100.0	100.0
>=0	31.1	91.0	93.7	96.1	97.2	97.5	98.4	99.0	99.0	99.3	99.3	99.3	99.4	99.5	99.8	99.8	100.0	100.0

TOTAL NO. OF OBS : 814

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	26.1	56.9	58.1	58.5	58.5	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
>=20000	26.3	63.0	64.3	64.8	64.8	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
>=18000	26.3	63.2	64.6	65.1	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
>=16000	26.4	63.6	65.0	65.5	65.5	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
>=14000	26.6	63.8	65.2	65.7	65.7	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
>=12000	26.9	64.6	66.0	66.5	66.5	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
>=10000	27.4	66.7	68.1	68.6	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
>= 9000	27.6	67.7	69.1	69.6	69.6	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
>= 8000	28.3	72.6	73.9	74.4	74.4	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>= 7000	28.8	75.3	77.1	77.7	77.7	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
>= 6000	28.8	75.4	77.2	77.8	77.8	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
>= 5000	29.2	76.1	77.8	78.7	78.7	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
>= 4500	29.3	76.4	78.2	79.1	79.2	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
>= 4000	29.8	78.4	80.2	81.0	81.2	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
>= 3500	30.0	79.3	81.0	81.9	82.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
>= 3000	31.5	83.5	85.3	86.3	86.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>= 2500	32.0	86.3	88.3	89.4	89.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
>= 2000	32.8	89.3	91.8	92.9	93.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>= 1800	33.0	89.7	92.1	93.3	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>= 1500	34.3	92.4	95.3	96.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>= 1200	34.5	92.8	95.8	97.0	97.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>= 1000	34.5	93.3	96.4	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 900	34.5	93.3	96.4	97.8	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 800	34.7	93.5	96.6	98.0	98.4	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 700	34.7	93.6	96.8	98.1	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 600	34.7	93.6	96.8	98.1	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 500	34.7	93.6	96.8	98.1	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 400	34.7	93.6	96.8	98.1	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 300	34.7	93.6	96.8	98.1	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 200	34.7	93.6	96.8	98.1	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 100	34.7	93.6	96.8	98.1	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 0	34.7	93.6	96.8	98.1	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NO. OF OBS : 802

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	28.3	61.6	62.4	63.0	63.0	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
>=20000	28.9	68.3	69.4	70.3	70.3	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
>=18000	28.9	68.9	70.1	70.9	70.9	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
>=16000	28.9	69.1	70.2	71.1	71.1	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
>=14000	29.1	69.3	70.4	71.3	71.3	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
>=12000	29.4	70.1	71.2	72.1	72.1	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
>=10000	29.7	71.4	72.6	73.5	73.5	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
>=9000	30.1	73.1	74.2	75.1	75.1	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
>=8000	30.9	77.6	78.9	79.7	79.7	80.0	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=7000	31.6	79.7	81.1	82.4	82.4	82.6	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
>=6000	31.6	79.9	81.3	82.8	82.8	83.0	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>=5000	31.7	80.5	81.9	83.4	83.4	83.6	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
>=4500	31.8	81.4	82.8	84.3	84.3	84.5	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
>=4000	32.3	82.9	84.4	85.9	85.9	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>=3500	32.7	84.7	86.3	87.9	87.9	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
>=3000	33.3	87.8	89.7	91.4	91.4	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=2500	34.2	90.2	92.1	93.8	93.8	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>=2000	34.8	92.3	94.3	96.1	96.1	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
>=1800	34.8	92.5	94.5	96.2	96.2	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>=1500	35.3	94.0	96.0	97.9	97.9	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=1200	35.5	94.3	96.5	98.4	98.4	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>=1000	35.6	94.8	97.0	98.9	98.9	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=900	35.6	95.0	97.1	99.0	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=800	35.6	95.0	97.1	99.0	99.1	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>=700	35.6	95.0	97.2	99.1	99.2	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=600	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=500	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=400	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=300	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=200	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	35.6	95.0	97.2	99.2	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 795

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	28.5	62.8	64.0	64.1	64.1	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6
>=20000	28.9	68.9	70.2	70.3	70.3	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8
>=18000	28.9	70.2	71.6	71.7	71.7	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2
>=16000	28.9	70.5	71.8	72.0	72.0	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.5
>=14000	28.9	70.6	72.0	72.1	72.1	72.3	72.3	72.3	72.3	72.5	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6
>=12000	29.4	71.1	72.5	72.6	72.6	72.8	72.8	72.8	72.8	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1
>=10000	30.5	73.7	75.1	75.2	75.2	75.4	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7
>=9000	30.8	74.3	75.7	75.9	75.9	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4
>=8000	32.1	80.4	82.1	82.4	82.4	82.6	82.6	82.6	82.6	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9
>=7000	32.5	83.0	85.1	85.5	85.5	85.7	85.7	85.7	85.7	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0
>=6000	32.5	83.3	85.5	85.9	85.9	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4
>=5000	32.6	84.4	86.6	87.0	87.0	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5
>=4500	32.8	85.2	87.5	88.0	88.0	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.5	88.5	88.5	88.5	88.5	88.5
>=4000	32.9	87.3	89.6	90.1	90.1	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6
>=3500	33.1	88.7	90.9	91.4	91.6	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1
>=3000	33.9	90.8	93.2	93.8	93.9	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
>=2500	33.9	92.1	94.5	95.2	95.4	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9
>=2000	34.2	93.5	96.2	96.9	97.1	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8
>=1800	34.4	93.9	96.5	97.3	97.5	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1
>=1500	34.5	94.4	97.3	98.0	98.3	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9
>=1200	34.5	94.7	97.5	98.3	98.5	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1
>=1000	34.6	94.8	97.6	98.4	98.6	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3
>=900	34.6	94.8	97.6	98.4	98.6	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3
>=800	34.7	95.0	97.9	98.6	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=700	34.7	95.0	97.9	98.6	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=600	34.7	95.0	97.9	98.6	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=500	34.7	95.2	98.0	98.8	99.0	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
>=400	34.7	95.2	98.0	98.8	99.0	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
>=300	34.7	95.2	98.0	98.8	99.0	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
>=200	34.7	95.2	98.0	98.8	99.0	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
>=100	34.7	95.2	98.0	98.8	99.0	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
>= 0	34.7	95.3	98.1	98.9	99.1	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 806

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	19.8	68.6	70.5	71.1	71.2	71.4	71.4	71.4	71.4	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7
>=20000	19.8	70.9	73.0	73.6	73.7	73.8	73.8	73.8	73.8	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2
>=18000	19.8	72.0	74.1	74.7	74.8	74.9	74.9	74.9	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3
>=16000	19.9	72.2	74.3	74.9	75.1	75.2	75.2	75.2	75.2	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.6	75.6
>=14000	19.9	72.3	74.4	75.1	75.2	75.3	75.3	75.3	75.3	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7
>=12000	19.9	72.7	74.8	75.4	75.6	75.7	75.7	75.7	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0
>=10000	20.4	74.9	77.0	77.7	77.8	77.9	77.9	77.9	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.3	78.3
>= 8000	20.4	75.3	77.4	78.1	78.3	78.4	78.4	78.4	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8
>= 6000	21.0	79.6	81.9	82.6	82.7	82.8	82.8	82.8	82.8	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2
>= 7000	21.1	81.0	83.3	84.1	84.2	84.3	84.3	84.3	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7
>= 6000	21.2	81.4	83.7	84.4	84.6	84.7	84.7	84.7	84.7	84.8	84.9	84.9	84.9	84.9	84.9	84.9	85.1	85.1
>= 5000	21.5	82.6	84.9	85.7	85.8	85.9	85.9	85.9	85.9	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3
>= 4500	21.6	83.3	85.7	86.4	86.5	86.7	86.7	86.7	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0
>= 4000	21.7	85.7	88.4	89.1	89.3	89.4	89.4	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.8	89.8
>= 3500	21.7	86.2	88.9	89.6	89.8	89.9	89.9	89.9	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2
>= 3000	21.7	88.3	91.1	91.9	92.0	92.1	92.1	92.1	92.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.5	92.5
>= 2500	22.2	91.1	94.1	94.8	94.9	95.1	95.1	95.1	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4
>= 2000	22.5	92.2	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7
>= 1800	22.7	92.7	95.8	96.5	96.7	96.8	96.8	96.8	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.2	97.2
>= 1500	23.0	94.0	97.0	97.9	98.0	98.1	98.1	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
>= 1200	23.0	94.6	97.7	98.5	98.6	98.8	98.8	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
>= 1000	23.1	94.8	97.9	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
>= 900	23.1	94.8	97.9	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
>= 800	23.1	94.9	98.0	99.0	99.3	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>= 700	23.1	94.9	98.0	99.0	99.3	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>= 600	23.1	94.9	98.0	99.0	99.3	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>= 500	23.1	94.9	98.0	99.0	99.3	99.4	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
>= 400	23.1	94.9	98.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>= 300	23.1	94.9	98.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>= 200	23.1	94.9	98.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>= 100	23.1	94.9	98.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
>= 0	23.1	94.9	98.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NO. OF OPS : 810

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : APR  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.6	60.5	61.9	62.7	62.9	63.1	63.2	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.6	63.6	63.6	63.7
>=20000	21.9	64.8	66.4	67.3	67.5	67.7	67.8	68.0	68.0	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.4
>=18000	21.9	65.7	67.3	68.1	68.4	68.6	68.7	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.2	69.2
>=16000	21.9	65.9	67.5	68.3	68.5	68.8	68.9	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.4
>=14000	22.0	66.0	67.6	68.4	68.7	68.9	69.0	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.5	69.6
>=12000	22.2	66.7	68.3	69.2	69.4	69.5	69.7	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.2	70.3	70.4
>=10000	22.7	68.6	70.2	71.0	71.3	71.5	71.6	71.8	71.8	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.2
>= 9000	22.9	69.4	71.1	72.0	72.2	72.4	72.6	72.7	72.8	72.8	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.1	73.2
>= 8000	23.6	74.2	76.0	77.0	77.2	77.4	77.6	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.2
>= 7000	23.9	76.0	78.1	79.2	79.5	79.7	79.8	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.4	80.5
>= 6000	23.9	76.2	78.3	79.5	79.7	80.0	80.1	80.3	80.3	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.6	80.7	80.8
>= 5000	24.2	77.3	79.4	80.6	80.8	81.1	81.2	81.4	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.7	81.7	81.8	81.9
>= 4500	24.3	78.1	80.2	81.4	81.7	81.9	82.1	82.2	82.3	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.6	82.7	82.8
>= 4000	24.7	80.1	82.3	83.5	83.9	84.1	84.3	84.4	84.5	84.5	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.8	84.9
>= 3500	24.9	81.2	83.5	84.8	85.1	85.4	85.5	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.1	86.2
>= 3000	25.5	84.5	86.9	88.2	88.6	88.8	89.0	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.6	89.7
>= 2500	26.1	87.2	89.8	91.2	91.6	91.9	92.1	92.2	92.3	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.6	92.7	92.8
>= 2000	26.5	89.3	92.1	93.6	94.1	94.4	94.6	94.8	94.9	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.2	95.3	95.4
>= 1800	26.6	89.6	92.5	94.0	94.4	94.7	95.0	95.1	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.5	95.6	95.7
>= 1500	27.0	91.0	94.1	95.7	96.2	96.5	96.7	96.9	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.4	97.5
>= 1200	27.1	91.5	94.6	96.3	96.8	97.1	97.4	97.5	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.9	97.9	98.0	98.1
>= 1000	27.2	91.9	95.1	96.9	97.4	97.6	97.9	98.1	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.6	98.7	98.8
>= 900	27.2	92.0	95.2	97.0	97.5	97.8	98.1	98.3	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.8	98.9
>= 800	27.2	92.2	95.4	97.2	97.8	98.1	98.4	98.7	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.2	99.3
>= 700	27.2	92.3	95.6	97.4	98.0	98.3	98.6	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.2	99.2	99.3	99.4	99.5
>= 600	27.2	92.4	95.7	97.5	98.1	98.4	98.8	99.0	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.4	99.4	99.5	99.6
>= 500	27.2	92.4	95.7	97.5	98.1	98.4	98.8	99.1	99.1	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6	99.7
>= 400	27.2	92.4	95.7	97.6	98.2	98.5	98.9	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.7	99.8
>= 300	27.2	92.4	95.7	97.6	98.2	98.5	98.9	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.7	99.8	99.9
>= 200	27.2	92.4	95.7	97.6	98.2	98.5	98.9	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.7	99.8	99.9
>= 100	27.2	92.4	95.7	97.6	98.2	98.5	98.9	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.7	99.8	99.9
>= 0	27.2	92.4	95.7	97.6	98.2	98.5	98.9	99.2	99.3	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.7	99.8	100.0

TOTAL NO. OF OBS : 6468

# 1 - SURFACE WINDS

013025 : POTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.		SPEED (KNOTS)																TOTAL	MEAN
16 PT.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%		SPEED			
N	.8		1.6		.3	.1	.0	.0	.0	.0	.0	.0	.0	2.9		4.6			
NNE	.5		.5		.5	.0	.0	.0	.0	.0	.0	.0	.0	1.4		4.7			
NE	.7		.7		.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5		3.8			
NNE	2.3		.9		.1	.0	.0	.0	.0	.0	.0	.0	.0	3.3		3.1			
E	5.2		3.3		3.0	1.4	.0	.0	.0	.0	.0	.0	.0	12.9		5.5			
ESE	1.4		1.3		2.8	1.6	.0	.0	.0	.0	.0	.0	.0	7.0		7.9			
SE	1.0		1.4		1.3	.9	.0	.0	.0	.0	.0	.0	.0	4.6		7.0			
SSE	1.6		1.0		.9	.5	.0	.0	.0	.0	.0	.0	.0	4.0		5.5			
S	1.7		1.8		1.8	.5	.0	.0	.0	.0	.0	.0	.0	5.4		5.9			
SSW	1.2		1.8		.9	.1	.0	.0	.0	.0	.0	.0	.0	4.0		5.3			
SW	.8		2.6		2.3	.6	.0	.0	.0	.0	.0	.0	.0	6.3		6.7			
WSW	.7		2.2		2.0	.6	.0	.0	.0	.0	.0	.0	.0	5.4		6.9			
W	1.4		4.6		3.7	.5	.0	.0	.0	.0	.0	.0	.0	9.7		6.1			
WNW	1.0		2.1		3.1	1.2	.0	.0	.0	.0	.0	.0	.0	7.4		7.3			
NW	1.4		2.9		2.8	.7	.0	.0	.0	.0	.0	.0	.0	7.7		6.6			
NNW	.9		2.5		1.5	.5	.0	.0	.0	.0	.0	.0	.0	5.4		6.0			
VAP	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0			
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9		.0			
ALL	22.1		31.3		26.6	9.0	.0	.0	.0	.0	.0	.0	.0	100.0		5.5			

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

113025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	2.1	3.3	1.2	.1	.0	.0	.0	.0	.0	.0	.0	6.7	4.8
NNE	2.4	2.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	5.2	4.0
NE	1.8	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.9
ENE	3.5	2.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	3.9
E	9.7	5.1	1.4	.6	.0	.1	.0	.0	.0	.0	.0	16.8	4.0
ESE	1.7	2.2	1.8	.2	.1	.0	.0	.0	.0	.0	.0	6.1	5.7
SE	.6	1.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	3.2	6.3
SSE	.5	.6	.9	.3	.0	.0	.0	.0	.0	.0	.0	2.3	6.9
S	.5	1.3	2.3	.5	.0	.0	.0	.0	.0	.0	.0	4.5	6.9
SSW	.7	1.3	.9	.1	.0	.0	.0	.0	.0	.0	.0	3.0	5.5
SW	.6	1.5	1.0	.6	.1	.0	.0	.0	.0	.0	.0	4.0	6.8
WSW	.7	1.3	.6	.7	.0	.0	.0	.0	.0	.0	.0	3.2	6.5
W	1.2	2.1	1.8	.6	.0	.0	.0	.0	.0	.0	.0	5.6	6.3
WNW	1.5	3.0	1.0	.6	.0	.0	.0	.0	.0	.0	.0	6.1	5.6
NW	1.7	4.0	3.7	.5	.0	.0	.0	.0	.0	.0	.0	9.9	5.9
NNW	1.8	2.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	5.2	4.8
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0
ALL	31.1	34.3	21.4	5.1	.2	.1	.0	.0	.0	.0	.0	100.0	4.8

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)												TOTAL %	MEAN WIND SPEED	
	1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			>56
N	3.2		3.7		.6	.1	.0	.0	.0	.0	.0	.0	.0	7.6	4.0
NNE	2.6		2.4		1.6	.2	.0	.0	.0	.0	.0	.0	.0	6.9	4.7
NE	2.6		2.5		.5	.0	.0	.0	.0	.0	.0	.0	.0	5.4	3.9
ENE	4.3		4.3		.5	.0	.0	.0	.0	.0	.0	.0	.0	9.0	3.7
E	8.6		7.5		1.2	.1	.0	.0	.0	.0	.0	.0	.0	17.4	3.7
ESE	1.2		1.7		.9	.2	.0	.0	.0	.0	.0	.0	.0	4.0	5.4
SE	.2		.8		1.2	.5	.0	.0	.0	.0	.0	.0	.0	2.6	7.6
SSE	.2		.2		.9	.3	.0	.0	.0	.0	.0	.0	.0	1.7	8.2
S	.3		1.5		1.2	.9	.0	.0	.0	.0	.0	.0	.0	3.9	7.4
SSW	.7		1.4		1.7	.3	.0	.0	.0	.0	.0	.0	.0	4.1	6.7
SW	.2		1.5		1.2	.2	.0	.0	.0	.0	.0	.0	.0	3.1	6.3
WSW	.5		.7		.7	.5	.2	.0	.0	.0	.0	.0	.0	2.5	8.0
W	.9		1.4		1.5	.1	.0	.0	.0	.0	.0	.0	.0	3.9	6.0
WNW	1.8		2.2		.7	.5	.0	.0	.0	.0	.0	.0	.0	5.2	5.5
NW	1.8		3.3		2.2	.2	.0	.0	.0	.0	.0	.0	.0	7.6	5.5
NNW	1.5		2.4		1.5	.2	.0	.0	.0	.0	.0	.0	.0	5.6	5.3
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	.0
ALL	30.6		37.6		17.9	4.5	.2	.0	.0	.0	.0	.0	.0	100.0	4.6

TOTAL NO. OF OBS : 868

NOTES : \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			
N	1.0			3.5			1.8	.6	.1	.0	.0	.0	.0	.0	.0			
NNE	.8			1.5			2.1	.9	.0	.0	.0	.0	.0	.0	.0			
NE	.9			2.8			2.3	.2	.0	.0	.0	.0	.0	.0	.0			
ENE	.8			2.1			1.5	.1	.1	.0	.0	.0	.0	.0	.0			
E	1.2			3.0			2.3	1.5	.1	.1	.0	.0	.0	.0	.0			
ESE	.5			.9			2.0	2.3	.3	.1	.0	.0	.0	.0	.0			
SE	.5			.8			1.7	1.0	.1	.0	.0	.0	.0	.0	.0			
SSE	.7			.9			1.2	.8	.2	.0	.0	.0	.0	.0	.0			
S	1.3			2.5			4.0	.9	.1	.0	.0	.0	.0	.0	.0			
SSW	.7			2.1			2.7	.8	.0	.0	.0	.0	.0	.0	.0			
SW	1.0			1.5			1.7	1.0	.1	.0	.0	.0	.0	.0	.0			
WSW	.1			1.3			1.6	.6	.2	.0	.0	.0	.0	.0	.0			
W	1.2			3.6			4.0	1.0	.0	.0	.0	.0	.0	.0	.0			
WNW	.2			1.8			3.2	1.7	.0	.0	.0	.0	.0	.0	.0			
NW	.8			1.5			2.5	2.2	.0	.0	.0	.0	.0	.0	.0			
NNW	.5			1.2			1.5	.5	.0	.0	.0	.0	.0	.0	.0			
VAR	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0			
ALL	11.7			31.0			36.3	16.3	1.5	.2	.0	.0	.0	.0	.0			

TOTAL NO. OF OBS : 865

NOTES : \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY  
HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)												TOTAL %	MEAN SPEED			
16 PT.	DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40			41-47	48-55	>56
N		.2	.5			1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.8
NNE		.2	.7			.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.5
NE		.1	.2			.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	8.3
ENE		.5	.3			.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.5
E		.3	.6			.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.4	10.5
ESE		.0	.7			1.5	1.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	4.8	11.6
SE		.1	.0			1.9	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	5.0	12.3
SSE		.3	.5			2.6	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.8	9.4
S		.0	1.5			5.2	2.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.2	9.4
SSW		.2	2.7			4.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	8.1
SW		.3	3.1			4.2	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	9.8	8.3
WSW		.3	3.1			6.6	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	12.0	8.0
W		.2	4.0			13.6	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.1	8.9
WNW		.3	1.0			5.6	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	9.3
NW		.0	.6			.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.6
NNW		.1	.1			1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0
VAR		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
ALL		3.5	19.7			49.3	23.8	2.6	.1	.0	.0	.0	.0	.0	.0	.0	100.0	8.9

TOTAL NO. OF OBS : 860

NOTES : \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
												%	WIND SPEED
N	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	8.3
NNE	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.7	8.5
NE	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.6	8.4
ENE	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.7	6.3
E	.0	.1	.1	.8	.2	.1	.0	.0	.0	.0	.0	1.4	14.6
ESE	.1	.0	.7	2.3	1.0	.1	.0	.0	.0	.0	.0	4.3	14.2
SE	.0	.1	.7	2.8	.1	.1	.0	.0	.0	.0	.0	3.8	13.0
SSE	.2	.7	1.3	2.0	.0	.0	.0	.0	.0	.0	.0	4.2	10.1
S	.0	.9	3.0	1.9	.1	.1	.0	.0	.0	.0	.0	6.0	9.9
SSW	.0	1.7	4.4	2.0	.0	.0	.0	.0	.0	.0	.0	8.1	9.0
SW	.0	1.4	6.5	3.6	.2	.0	.0	.0	.0	.0	.0	11.7	9.8
WSW	.0	2.2	8.8	5.1	.2	.0	.0	.0	.0	.0	.0	16.4	9.6
W	.1	2.2	18.4	9.6	1.2	.0	.0	.0	.0	.0	.0	31.6	10.2
WNW	.1	.7	4.2	2.9	.1	.0	.0	.0	.0	.0	.0	8.0	9.9
NW	.1	.0	.7	.6	.0	.0	.0	.0	.0	.0	.0	1.4	9.8
NNW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0
ALL	1.0	10.9	49.4	34.5	3.2	.5	.0	.0	.0	.0	.0	100.0	10.1

TOTAL NO. OF OBS : 862

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%			SPEED			
N		.0		.1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.1			5.0			
NNE		.0		.0		.1	.0	.0	.0	.0	.0	.0	.0	.0	.1			10.0			
NE		.0		.0		.1	.3	.0	.0	.0	.0	.0	.0	.0	.5			11.3			
ENE		.1		.0		.2	.0	.0	.0	.0	.0	.0	.0	.0	.3			5.7			
E		.1		.1		.5	.9	.1	.0	.0	.0	.0	.0	.0	1.7			11.5			
ESE		.2		.1		2.0	2.7	.6	.0	.0	.0	.0	.0	.0	5.5			12.0			
SE		.0		.1		2.2	2.4	.0	.0	.0	.0	.0	.0	.0	4.7			10.8			
SSE		.0		.8		1.4	.8	.0	.0	.0	.0	.0	.0	.0	3.0			8.9			
S		.5		.6		2.0	.7	.0	.0	.0	.0	.0	.0	.0	3.7			8.0			
SSW		.1		.9		2.9	1.5	.0	.0	.0	.0	.0	.0	.0	5.4			8.9			
SW		.1		3.4		5.7	1.7	.1	.0	.0	.0	.0	.0	.0	11.0			8.1			
WSW		.2		3.6		9.4	3.8	.3	.0	.0	.0	.0	.0	.0	17.3			9.1			
W		.6		4.9		16.8	11.1	.5	.0	.0	.0	.0	.0	.0	33.8			9.6			
WNW		.1		2.3		5.8	1.7	.0	.0	.0	.0	.0	.0	.0	9.9			8.6			
NW		.0		.5		.9	.6	.0	.0	.0	.0	.0	.0	.0	2.0			9.1			
NNW		.0		.2		.3	.2	.0	.0	.0	.0	.0	.0	.0	.8			8.1			
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0			
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0			
ALL		2.1		17.6		50.2	28.6	1.6	.0	.0	.0	.0	.0	.0	100.0			9.3			

TOTAL NO. OF OBS : 865

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56							
N	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0	
NNE	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.0	
NE	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	5.0	
ENE	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.8	
E	.7	1.4	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.6	
ESE	.5	.9	2.8	2.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	9.8	
SE	.2	1.0	2.1	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.9	
SSE	.3	1.3	.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.1	
S	1.5	1.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4.9	
SSW	1.3	1.8	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.1	
SW	1.6	3.0	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.0	
WSW	1.2	4.5	4.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.6	6.6	
W	4.4	9.8	7.1	3.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.8	6.6	
WNW	2.6	3.8	3.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.4	6.3	
NW	1.8	2.2	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	4.9	
NNW	1.2	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	.0	
ALL	18.0	33.3	29.0	11.5	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.2	

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
DIR.																%	WIND SPEED
N	1.0	1.6					.6	.1	.0*		.0			.0		3.4	5.2
NNE	.9	.9					.7	.2	.0		.0			.0		2.7	5.5
NE	.8	.9					.6	.1	.0		.0			.0		2.5	5.3
ENE	1.5	1.3					.5	.1	.0*		.0			.0		3.4	4.3
E	3.2	2.6					1.3	1.0	.1	.0*	.0			.0		8.3	5.7
ESE	.7	1.0					1.8	1.7	.4	.1	.0			.0		5.6	9.5
SE	.3	.7					1.5	1.4	.1	.0*	.0			.0		4.1	9.4
SSE	.5	.8					1.2	.8	.0*	.0	.0			.0		3.4	8.1
S	.7	1.5					2.6	1.0	.0*	.0	.0			.0		5.8	7.6
SSW	.6	1.7					2.4	.9	.0	.0	.0			.0		5.6	7.5
SW	.6	2.3					3.1	1.3	.1	.0	.0			.0		7.4	7.8
WSW	.5	2.4					4.2	1.7	.2	.0	.0			.0		8.9	8.3
W	1.2	4.1					8.3	3.9	.2	.0	.0			.0		17.8	8.5
WNW	1.0	2.1					3.4	1.4	.1	.0	.0			.0		8.0	7.8
NW	1.0	1.9					1.8	.7	.0	.0	.0			.0		5.3	6.6
NNW	.8	1.2					.8	.2	.0	.0	.0			.0		3.0	5.7
VAR	.0	.0					.0	.0	.0	.0	.0			.0		.0	.0
CLM	.0	.0					.0	.0	.0	.0	.0			.0		4.9	.0
ALL	15.0	27.0					35.0	16.6	1.3	.1	.0			.0		100.0	7.1

TOTAL NO. OF OBS : 6924

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	19.4	76.2	77.3	78.0	78.2	78.5	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
>=20000	19.4	77.5	78.6	79.3	79.5	79.7	79.7	79.7	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>=18000	19.4	78.1	79.2	79.9	80.1	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
>=16000	19.4	78.1	79.2	79.9	80.1	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
>=14000	19.4	78.1	79.2	79.9	80.1	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
>=12000	19.4	78.3	79.4	80.1	80.3	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
>=10000	19.7	79.9	80.9	81.6	81.9	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
>=9000	19.9	80.3	81.5	82.2	82.4	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
>=8000	20.1	82.6	83.7	84.5	84.8	85.0	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
>=7000	20.4	83.7	85.0	85.8	86.1	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>=6000	20.4	83.7	85.0	85.8	86.1	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>=5000	20.5	84.2	85.6	86.4	86.7	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=4500	20.5	84.3	85.7	86.5	86.8	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
>=4000	20.6	84.9	86.3	87.2	87.5	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
>=3500	20.7	85.7	87.2	88.2	88.4	88.6	88.6	88.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=3000	21.0	87.2	88.9	89.8	90.0	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>=2500	21.1	88.4	90.3	91.2	91.5	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
>=2000	21.7	90.6	92.5	93.4	93.7	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
>=1800	21.7	91.0	92.9	93.8	94.0	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=1500	22.1	92.4	94.5	95.4	95.8	96.1	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>=1200	22.5	93.7	95.8	96.7	97.1	97.4	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>=1000	22.5	94.6	96.7	97.7	98.1	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>=900	22.5	94.6	96.7	97.8	98.2	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=800	22.5	94.7	96.8	98.0	98.5	98.8	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=700	22.5	94.8	97.2	98.4	98.8	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=600	22.5	95.0	97.3	98.6	99.1	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=500	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=300	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=100	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=0	22.5	95.1	97.4	98.7	99.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NO. OF OBS : 854



013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	17.2	72.5	74.5	74.9	75.1	75.2	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.9
>=20000	17.2	74.5	76.6	77.0	77.2	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	78.0
>=18000	17.2	74.9	77.0	77.3	77.5	77.7	77.7	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.4
>=16000	17.2	75.0	77.1	77.4	77.7	77.8	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.5
>=14000	17.2	75.1	77.2	77.5	77.8	77.9	77.9	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.6
>=12000	17.2	75.1	77.2	77.5	77.8	77.9	77.9	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.6
>=10000	17.2	76.0	78.1	78.5	78.7	78.8	78.8	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.5
>=9000	17.2	76.5	78.6	78.9	79.2	79.3	79.3	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	80.0
>=8000	17.3	78.8	81.1	81.4	81.6	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.5
>=7000	17.4	80.0	82.2	82.6	82.8	82.9	82.9	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.6
>=6000	17.4	80.0	82.2	82.6	82.8	82.9	82.9	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.6
>=5000	17.5	80.7	82.9	83.3	83.5	83.6	83.6	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	84.3
>=4500	17.8	81.6	83.9	84.2	84.4	84.6	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	85.3
>=4000	17.9	82.9	85.1	85.5	85.7	85.8	85.8	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.5
>=3500	17.9	83.2	85.4	85.7	86.0	86.1	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.8
>=3000	18.2	85.1	87.6	88.1	88.3	88.4	88.4	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.7	89.1
>=2500	18.5	86.7	89.1	89.7	89.9	90.1	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.8
>=2000	19.6	89.0	91.6	92.2	92.4	92.5	92.5	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	93.2
>=1800	19.6	89.4	91.9	92.5	92.7	92.9	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.6
>=1500	19.9	91.0	93.9	94.6	95.0	95.1	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.8
>=1200	20.4	92.0	95.0	95.7	96.0	96.1	96.1	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.8
>=1000	20.6	93.2	96.3	97.0	97.3	97.4	97.4	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	98.1
>=900	20.6	93.3	96.5	97.2	97.5	97.7	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	98.4
>=800	20.6	93.5	97.0	97.7	98.1	98.2	98.2	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.9
>=700	20.6	93.7	97.2	97.9	98.4	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	99.2
>=600	20.6	93.7	97.2	97.9	98.5	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	99.4
>=500	20.6	93.7	97.3	98.0	98.6	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.4
>=400	20.6	93.7	97.3	98.2	98.8	98.9	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.8
>=300	20.6	93.8	97.4	98.5	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	100.0
>=200	20.6	93.8	97.4	98.5	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	100.0
>=100	20.6	93.8	97.4	98.5	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	100.0
>=0	20.6	93.8	97.4	98.5	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	100.0

TOTAL NO. OF OPS : 855

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	19.6	57.9	59.7	61.5	61.7	62.0	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.4	62.7	62.8	62.9	63.4
>=20000	19.7	60.5	62.6	64.6	65.0	65.2	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.7	65.9	66.0	66.1	66.6
>=18000	19.7	61.2	63.3	65.3	65.7	65.9	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.4	66.6	66.7	66.9	67.3
>=16000	19.7	61.2	63.3	65.3	65.7	65.9	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.4	66.6	66.7	66.9	67.3
>=14000	19.9	61.5	63.5	65.9	66.3	66.5	66.7	66.7	66.9	66.9	66.9	66.9	66.9	67.0	67.2	67.3	67.5	67.9
>=12000	20.2	62.1	64.1	66.5	66.9	67.1	67.3	67.3	67.5	67.5	67.5	67.5	67.5	67.6	67.8	67.9	68.1	68.5
>=10000	20.5	63.3	65.4	67.8	68.2	68.4	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.9	69.1	69.3	69.4	69.9
>=9000	20.6	64.4	66.5	68.9	69.3	69.5	69.7	69.7	69.9	69.9	69.9	69.9	69.9	70.0	70.2	70.3	70.5	70.9
>=8000	21.1	67.8	70.2	72.7	73.2	73.4	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.9	74.2	74.3	74.4	74.9
>=7000	21.5	69.9	72.4	74.9	75.4	75.6	75.8	75.8	76.0	76.0	76.0	76.0	76.0	76.1	76.3	76.4	76.6	77.0
>=6000	21.5	70.1	72.6	75.1	75.6	75.8	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.3	76.6	76.7	76.8	77.3
>=5000	21.5	70.7	73.2	75.7	76.2	76.4	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.9	77.2	77.3	77.4	77.9
>=4500	21.5	71.1	73.7	76.2	76.7	76.9	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.4	77.6	77.8	77.9	78.3
>=4000	21.5	72.0	74.8	77.3	77.8	78.0	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.6	78.8	78.9	79.1	79.5
>=3500	21.7	73.6	76.3	78.8	79.3	79.5	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.4	80.5	80.6	81.1
>=3000	22.2	76.1	78.9	81.6	82.1	82.3	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.9	83.1	83.3	83.4	83.9
>=2500	23.1	78.8	81.9	84.8	85.3	85.5	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.1	86.4	86.5	86.6	87.1
>=2000	24.0	81.9	85.4	88.4	88.9	89.1	89.5	89.5	89.6	89.6	89.7	89.7	89.7	89.8	90.1	90.2	90.3	90.8
>=1800	24.2	82.2	85.6	88.6	89.1	89.4	89.7	89.7	89.8	89.8	90.0	90.0	90.0	90.1	90.3	90.4	90.6	91.0
>=1500	25.1	84.7	88.3	91.5	92.1	92.3	92.7	92.7	92.8	92.8	92.9	92.9	92.9	93.1	93.3	93.4	93.5	94.0
>=1200	25.8	86.0	89.8	93.2	93.8	94.0	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.7	95.0	95.1	95.2	95.7
>=1000	26.3	87.3	91.3	94.6	95.2	95.5	96.1	96.1	96.2	96.2	96.4	96.4	96.4	96.5	96.8	96.9	97.0	97.5
>=900	26.3	87.6	91.6	95.1	95.7	95.9	96.5	96.5	96.7	96.8	97.0	97.0	97.0	97.1	97.4	97.5	97.6	98.1
>=800	26.3	87.8	92.0	95.5	96.1	96.3	96.9	96.9	97.0	97.1	97.4	97.4	97.4	97.5	97.7	97.8	98.0	98.4
>=700	26.3	87.9	92.2	95.8	96.4	96.6	97.4	97.4	97.5	97.6	97.8	97.8	97.8	98.0	98.2	98.3	98.4	98.9
>=600	26.3	87.9	92.2	95.8	96.5	96.9	97.5	97.5	97.7	97.8	98.1	98.1	98.1	98.2	98.4	98.6	98.7	99.2
>=500	26.3	87.9	92.3	95.9	96.8	97.1	97.7	97.7	98.0	98.1	98.3	98.3	98.3	98.4	98.7	98.8	98.9	99.4
>=400	26.3	87.9	92.3	95.9	96.9	97.2	98.1	98.1	98.3	98.4	98.8	98.8	98.8	98.9	99.3	99.4	99.5	100.0
>=300	26.3	87.9	92.3	95.9	96.9	97.2	98.1	98.1	98.3	98.4	98.8	98.8	98.8	98.9	99.3	99.4	99.5	100.0
>=200	26.3	87.9	92.3	95.9	96.9	97.2	98.1	98.1	98.3	98.4	98.8	98.8	98.8	98.9	99.3	99.4	99.5	100.0
>=100	26.3	87.9	92.3	95.9	96.9	97.2	98.1	98.1	98.3	98.4	98.8	98.8	98.8	98.9	99.3	99.4	99.5	100.0
>=0	26.3	87.9	92.3	95.9	96.9	97.2	98.1	98.1	98.3	98.4	98.8	98.8	98.8	98.9	99.3	99.4	99.5	100.0

TOTAL NO. OF OBS : 836

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																			
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	25.2	61.1	62.0	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	
>=20000	25.4	64.5	65.5	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	
>=18000	25.4	65.1	66.1	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	
>=16000	25.4	65.1	66.1	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	
>=14000	25.4	65.1	66.1	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	
>=12000	26.0	66.1	67.0	67.6	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	
>=10000	26.4	67.3	68.2	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	
>=9000	26.5	67.9	68.8	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	
>=8000	27.1	70.6	71.7	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	
>=7000	27.9	72.5	73.7	74.4	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	
>=6000	27.9	72.5	73.7	74.4	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	
>=5000	27.9	73.3	74.5	75.2	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	
>=4500	28.0	74.0	75.2	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
>=4000	28.8	76.5	77.9	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	
>=3500	29.3	78.2	79.6	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	
>=3000	29.9	81.7	83.3	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	
>=2500	30.5	84.8	86.4	87.1	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	
>=2000	31.8	88.3	90.1	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	
>=1800	32.0	88.9	90.8	91.8	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	
>=1500	33.2	91.1	93.2	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
>=1200	33.6	92.4	94.9	96.0	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	
>=1000	34.0	93.5	96.3	97.5	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	
>=900	34.0	93.6	96.5	97.7	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
>=800	34.0	93.7	97.0	98.2	98.5	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
>=700	34.0	93.8	97.1	98.3	98.6	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	
>=600	34.0	93.9	97.3	98.5	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
>=500	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
>=400	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
>=300	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
>=200	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
>=100	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	
>=0	34.0	93.9	97.4	98.7	98.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	

TOTAL NO. OF OBS : 840

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	28.2	67.9	69.1	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
>=20000	28.5	72.7	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>=18000	28.5	73.4	74.6	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
>=16000	28.5	73.4	74.6	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
>=14000	28.6	73.6	74.8	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
>=12000	28.8	74.0	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>=10000	29.2	75.7	77.1	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
>=9000	29.6	76.4	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
>=8000	30.6	78.9	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
>=7000	30.8	80.0	81.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
>=6000	30.8	80.0	81.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
>=5000	31.4	81.5	82.9	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>=4000	31.9	83.3	84.7	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
>=3500	32.3	84.1	85.7	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
>=3000	32.6	86.2	88.1	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>=2500	33.5	88.6	90.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
>=2000	35.3	91.7	93.6	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>=1800	35.3	91.9	94.0	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
>=1500	36.3	94.3	96.5	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=1200	36.3	94.8	97.0	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=1000	36.6	95.8	98.3	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=900	36.6	95.8	98.3	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=800	36.6	95.8	98.3	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=700	36.6	95.8	98.4	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=600	36.6	95.8	98.4	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=500	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=300	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=100	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=0	36.6	96.0	98.7	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OPS : 831

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	1/2	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	29.8	70.8	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
>=20000	30.4	75.9	76.7	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
>=18000	30.5	77.0	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
>=16000	30.5	77.1	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
>=14000	30.6	77.2	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
>=12000	31.0	77.7	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
>=10000	31.1	79.2	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
>= 9000	31.6	80.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>= 8000	32.4	82.8	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
>= 7000	33.0	84.6	85.5	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
>= 6000	33.1	84.7	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
>= 5000	33.4	85.1	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>= 4500	33.4	85.3	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
>= 4000	34.0	86.7	87.8	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>= 3500	34.2	87.5	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
>= 3000	34.3	89.8	90.8	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>= 2500	35.2	91.2	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>= 2000	36.5	94.2	95.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>= 1800	36.6	94.5	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>= 1500	37.6	95.8	97.0	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>= 1200	37.8	96.3	97.5	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>= 1000	38.2	97.1	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 900	38.2	97.1	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 800	38.2	97.1	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 700	38.2	97.1	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 600	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 500	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 400	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 300	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 200	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 100	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 0	38.2	97.2	98.4	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 830

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	31.1	71.6	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
>=20000	31.3	76.7	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
>=18000	31.4	77.9	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
>=16000	31.4	78.1	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>=14000	31.5	78.2	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
>=12000	31.7	78.5	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=10000	32.1	81.1	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
>=9000	32.3	81.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
>=8000	33.3	84.9	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
>=7000	33.9	86.6	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=6000	34.2	86.8	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
>=5000	34.3	86.9	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
>=4500	34.3	87.3	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
>=4000	34.5	87.9	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
>=3500	34.9	88.8	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>=3000	35.3	90.4	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>=2500	35.7	92.1	94.2	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
>=2000	36.7	94.4	96.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=1800	36.7	94.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>=1500	37.1	95.3	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=1200	37.3	95.9	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>=1000	37.4	96.4	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=900	37.4	96.4	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=800	37.4	96.4	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=700	37.4	96.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=600	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=500	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=400	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	37.4	96.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 834

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN

PERIOD OF RECORD : 1958-1987

CLASS : ALL WEATHER

CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY  
HOUR : 2200 LSTPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2 1/2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.5	75.2	76.6	77.4	77.6	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>=20000	21.5	77.7	79.3	80.0	80.2	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
>=18000	21.5	78.3	79.9	80.6	80.8	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>=16000	21.5	78.3	79.9	80.6	80.8	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>=14000	21.6	78.7	80.2	80.9	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>=12000	21.6	78.7	80.2	80.9	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>=10000	21.9	80.6	82.1	82.8	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>= 9000	22.2	81.3	82.8	83.6	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
>= 8000	22.5	84.6	86.2	87.1	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>= 7000	22.8	86.3	88.0	88.9	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>= 6000	22.8	86.3	88.0	88.9	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>= 5000	22.8	86.8	88.4	89.4	89.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
>= 4500	22.9	87.1	88.8	89.9	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
>= 4000	23.1	88.2	89.9	90.9	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>= 3500	23.2	88.9	90.6	91.7	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
>= 3000	23.5	90.5	92.1	93.3	93.6	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>= 2500	23.7	91.5	93.2	94.4	94.6	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 2000	23.7	92.4	94.2	95.4	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>= 1800	23.8	93.0	94.9	96.1	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 1500	24.2	93.9	96.1	97.3	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>= 1200	24.3	94.2	96.3	97.5	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 1000	24.6	95.2	97.6	98.8	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 900	24.6	95.2	97.6	98.8	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 800	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 700	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 600	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 500	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 400	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 300	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 200	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 100	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 0	24.6	95.4	97.9	99.2	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NO. OF OBS : 839

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : MAY  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	23.9	69.2	70.5	71.1	71.2	71.3	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.6
>=20000	24.1	72.5	73.9	74.6	74.7	74.8	74.9	74.9	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.1
>=18000	24.2	73.3	74.7	75.3	75.5	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.9
>=16000	24.2	73.3	74.7	75.4	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.9
>=14000	24.2	73.4	74.9	75.5	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.1
>=12000	24.4	73.8	75.3	75.9	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.4	76.5
>=10000	24.7	75.4	76.9	77.6	77.7	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.1
>=9000	24.9	76.1	77.6	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.9
>=8000	25.5	78.9	80.5	81.2	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.8
>=7000	25.9	80.4	82.1	82.9	83.1	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.5
>=6000	26.0	80.5	82.2	83.0	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.5
>=5000	26.0	81.1	82.7	83.5	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.1
>=4500	26.2	81.5	83.2	84.0	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.6
>=4000	26.5	82.8	84.6	85.4	85.6	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	86.0
>=3500	26.7	83.7	85.5	86.4	86.5	86.6	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.9	87.0
>=3000	27.1	85.9	87.8	88.7	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.3
>=2500	27.6	87.8	89.8	90.7	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.4
>=2000	28.6	90.3	92.4	93.4	93.7	93.8	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.2
>=1800	28.7	90.7	92.8	93.8	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.5	94.5	94.6
>=1500	29.4	92.3	94.6	95.7	96.0	96.1	96.2	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.5	96.6
>=1200	29.7	93.2	95.5	96.7	97.0	97.1	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.5
>=1000	30.0	94.1	96.7	97.9	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.8
>=900	30.0	94.2	96.8	98.0	98.3	98.5	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	99.0
>=800	30.0	94.3	97.0	98.3	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.3
>=700	30.0	94.4	97.1	98.4	98.8	99.0	99.1	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.5
>=600	30.0	94.4	97.2	98.5	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.7
>=500	30.0	94.5	97.3	98.6	99.0	99.2	99.4	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8
>=400	30.0	94.5	97.3	98.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.9
>=300	30.0	94.5	97.3	98.7	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	100.0
>=200	30.0	94.5	97.3	98.7	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.9	100.0
>=100	30.0	94.5	97.3	98.7	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.9	100.0
>= 0	30.0	94.5	97.3	98.7	99.1	99.3	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.9	100.0

TOTAL NO. OF OBS : 6719



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)												TOTAL	MEAN	
DIR.		1-3	4	-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED
N		.7	.5		.0	.1	.0	.0	.0	.0	.0	.0	.0	1.3	4.2	
NNE		.2	.2		.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.6	
NE		.7	.1		.4	.1	.0	.0	.0	.0	.0	.0	.0	1.3	4.6	
ENE		1.4	.4		.6	.1	.0	.0	.0	.0	.0	.0	.0	2.5	4.7	
E		4.7	3.3		1.3	1.7	.1	.0	.0	.0	.0	.0	.0	11.1	5.5	
ESE		1.8	2.1		2.1	2.6	.1	.0	.0	.0	.0	.0	.0	8.8	8.0	
SE		1.2	1.9		2.1	1.7	.1	.1	.0	.0	.0	.0	.0	7.2	8.1	
SSE		1.6	2.3		1.8	.5	.0	.0	.0	.0	.0	.0	.0	6.1	5.9	
S		2.4	3.8		2.0	1.0	.1	.0	.0	.0	.0	.0	.0	9.3	5.9	
SSW		2.4	1.6		.6	.1	.0	.0	.0	.0	.0	.0	.0	4.7	4.1	
SW		1.6	2.1		.6	.4	.0	.0	.0	.0	.0	.0	.0	4.7	5.1	
WSW		1.6	2.5		1.6	.6	.0	.0	.0	.0	.0	.0	.0	6.2	5.7	
W		2.4	3.3		3.3	.6	.0	.0	.0	.0	.0	.0	.0	9.7	5.9	
WNW		1.2	1.2		1.2	.4	.1	.0	.0	.0	.0	.0	.0	4.1	6.1	
NW		1.1	1.9		3.2	.8	.0	.0	.0	.0	.0	.0	.0	7.0	6.8	
NNW		1.2	1.0		1.0	.4	.0	.0	.0	.0	.0	.0	.0	3.5	5.4	
VAR		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	.0	
ALL	26.0	28.3	22.0	11.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	100.0	5.3	

TOTAL NO. OF OBS : 838

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : JUN  
 CLASS : ALL WEATHER HOUR : 0400 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)												TOTAL	MEAN	
DIR.		1-3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED
N		1.4	1.7		.8	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.4	
NNE		1.6	1.1		.4	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.9	
NE		1.3	1.6		.4	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.0	
ENE		2.6	2.9		.5	.1	.0	.0	.0	.0	.0	.0	.0	6.1	4.1	
E		8.0	5.5		1.4	1.1	.0	.0	.0	.0	.0	.0	.0	16.0	4.3	
ESE		1.9	2.0		1.6	1.6	.1	.0	.0	.0	.0	.0	.0	7.2	7.0	
SE		1.2	1.3		1.2	1.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.8	
SSE		1.0	1.7		1.1	.4	.1	.0	.0	.0	.0	.0	.0	4.2	6.5	
S		1.7	4.2		2.0	1.0	.0	.0	.0	.0	.0	.0	.0	8.8	6.1	
SSW		1.6	1.8		1.0	.2	.0	.0	.0	.0	.0	.0	.0	4.5	5.4	
SW		1.0	1.0		.7	.1	.0	.0	.0	.0	.0	.0	.0	2.7	5.1	
WSW		.7	1.2		.6	.2	.0	.0	.0	.0	.0	.0	.0	2.7	5.3	
W		1.4	1.6		2.3	.4	.0	.0	.0	.0	.0	.0	.0	5.6	6.2	
WNW		1.4	1.9		.8	.2	.0	.0	.0	.0	.0	.0	.0	4.4	5.1	
NW		1.1	2.5		2.3	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.9	
NNW		1.4	2.4		1.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	
VAR		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	.0	
ALL		29.3	34.2		17.9	6.2	.2	.0	.0	.0	.0	.0	.0	100.0	4.7	

TOTAL NO. OF OBS : 837

NOTES : \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND		SPEED			
N	2.0		2.6			.6	.0	.0	.0	.0	.0	.0	.0	.0	5.2		4.2				
NNE	1.2		1.8			.8	.1	.0	.0	.0	.0	.0	.0	.0	3.9		4.9				
NE	2.4		3.2			.2	.0	.0	.0	.0	.0	.0	.0	.0	5.8		3.9				
ENE	3.2		4.2			.1	.0	.0	.0	.0	.0	.0	.0	.0	7.5		3.8				
E	10.7		6.9			.7	.6	.0	.0	.0	.0	.0	.0	.0	18.9		3.6				
ESE	1.9		1.1			1.5	.6	.1	.0	.0	.0	.0	.0	.0	5.2		6.2				
SE	.5		1.7			1.0	.5	.1	.0	.0	.0	.0	.0	.0	3.7		7.0				
SSE	.7		1.5			1.8	.7	.0	.0	.0	.0	.0	.0	.0	4.8		6.8				
S	1.1		2.7			2.5	.5	.0	.0	.0	.0	.0	.0	.0	6.8		6.1				
SSW	.5		1.2			.5	.1	.0	.0	.0	.0	.0	.0	.0	2.3		5.3				
SW	.5		1.2			.7	.4	.0	.0	.0	.0	.0	.0	.0	2.7		6.9				
WSW	.5		1.0			1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.6		5.8				
N	1.1		1.0			1.4	.4	.0	.0	.0	.0	.0	.0	.0	3.8		6.3				
WNW	1.1		1.0			1.2	.2	.0	.0	.0	.0	.0	.0	.0	3.5		5.9				
NW	1.1		2.0			1.7	.2	.0	.0	.0	.0	.0	.0	.0	5.0		5.8				
NNW	1.8		2.4			.6	.0	.0	.0	.0	.0	.0	.0	.0	4.8		4.3				
VAR	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
CLM	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5		.0				
ALL	30.1		35.4			16.5	4.3	.2	.0	.0	.0	.0	.0	.0	100.0		4.3				

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROT1, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN	
		SPEED (KNOTS)														%	SPEED
N		.8		1.9		1.4		.6		.0		.0		.0	4.8	6.4	
NNE		.6		1.4		1.0		.4		.0		.0		.0	3.3	6.2	
NE		.6		1.9		1.6		.2		.0		.0		.0	4.3	6.3	
ENE		.7		1.4		1.1		.4		.0		.0		.0	3.6	6.1	
E		1.3		3.0		2.6		1.7		.1		.2		.0	8.9	7.9	
ESE		1.1		1.6		2.3		2.6		.6		.0		.0	8.1	9.2	
SE		.4		1.1		1.4		1.6		.1		.0		.0	4.5	9.4	
SSE		.5		2.5		2.6		.7		.0		.0		.0	6.3	7.2	
S		2.3		3.9		5.3		1.2		.0		.0		.0	12.6	6.7	
SSW		1.3		2.6		1.9		.4		.0		.0		.0	6.2	5.8	
SW		.7		1.8		1.8		.2		.0		.0		.0	4.5	6.4	
WSW		.8		2.4		2.5		.6		.0		.0		.0	6.3	6.8	
W		1.2		3.8		3.0		1.2		.0		.0		.0	9.2	6.8	
WNW		.5		2.4		1.4		1.1		.1		.0		.0	5.5	7.5	
NW		.4		1.4		2.3		1.2		.0		.0		.0	5.3	8.2	
NNW		.2		1.1		1.2		.1		.0		.0		.0	2.6	6.6	
VAR		.0		.0		.0		.0		.0		.0		.0	.0	.0	
CLM		.0		.0		.0		.0		.0		.0		.0	3.8	.0	
ALL		13.4		34.2		33.3		14.1		1.0		.2		.0	100.0	6.9	

TOTAL NO. OF OBS : 838

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)													TOTAL %	MEAN WIND SPEED
16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			
N	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.6	8.6	
NNE	.1	.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.8	8.3	
NE	.0	.5	.1	.4	.0	.0	.0	.0	.0	.0	.0	1.0	8.0	
ENE	.1	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	1.0	7.5	
E	.0	.1	.6	.8	.4	.2	.0	.0	.0	.0	.0	2.2	13.3	
ESE	.2	.7	1.2	2.0	.8	.1	.0	.0	.0	.0	.0	5.2	12.2	
SE	.0	.4	1.1	3.5	.5	.0	.0	.0	.0	.0	.0	5.4	12.3	
SSE	.2	1.0	.7	1.9	.0	.0	.0	.0	.0	.0	.0	3.9	9.8	
S	.5	2.9	5.7	2.6	.0	.0	.0	.0	.0	.0	.0	11.7	8.5	
SSW	.1	3.1	6.4	1.0	.0	.0	.0	.0	.0	.0	.0	10.6	7.8	
SW	.5	3.2	6.5	1.7	.1	.0	.0	.0	.0	.0	.0	12.0	7.9	
WSW	.1	3.6	7.3	2.0	.1	.0	.0	.0	.0	.0	.0	13.2	8.2	
W	.7	3.7	14.1	5.4	.2	.0	.0	.0	.0	.0	.0	24.2	8.9	
WNW	.0	.4	3.0	2.4	.0	.0	.0	.0	.0	.0	.0	5.8	10.0	
NW	.0	.5	.6	.5	.0	.0	.0	.0	.0	.0	.0	1.6	8.8	
NNW	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	
ALL	2.6	20.6	48.9	24.8	2.2	.4	.0	.0	.0	.0	.0	100.0	9.0	

TOTAL NO. OF OBS : 831

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WIND

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		1	1 - 3	4	6	7-10	11-16	17-21	SPEED (KNOTS)								TOTAL	MEAN
DIR.									22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED		
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	8.5		
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
NE	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.0		
ENE	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	11.8		
E	.0	.1	.2	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	13.9		
ESE	.0	.0	.2	2.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.4	15.9		
SE	.0	.2	.4	4.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	13.8		
SSE	.0	.0	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	12.5		
S	.0	1.2	2.5	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	9.0		
SSW	.0	1.1	4.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	8.9		
SW	.1	1.8	7.8	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	9.1		
WSW	.4	2.0	9.5	7.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.6	10.1		
W	.5	3.7	15.6	11.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.3	9.8		
WNW	.0	1.1	2.3	3.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	10.3		
NW	.0	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.6		
NNW	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0		
ALL	1.0	11.9	45.4	38.5	2.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	10.3		

TOTAL NO. OF OBS : 832

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	9.0
ENE	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	14.3
E	.0	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	14.7
ESE	.0	.0	.6	.6	2.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	13.7
SE	.0	.6	1.1	1.1	4.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.7	12.4
SSE	.0	.5	1.7	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	10.3
S	.5	1.0	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.5
SSW	.2	1.2	2.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.1
SW	.1	2.1	4.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	8.3
WSW	.5	2.7	9.3	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.2	9.2
W	.4	6.9	17.4	11.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36.4	9.4
WNW	.1	2.1	5.5	2.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	9.1
NW	.1	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	8.8
NNW	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	9.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0
ALL	2.1	17.6	45.5	31.9	2.3	.1										100.0	9.5

TOTAL NO. OF OBS : 839

NOTES :  
 # = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.8
NNE	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.5
NE	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.0
ENE	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.8	7.7
E	.1	.5	1.1	1.2	.4	.0	.0	.0	.0	.0	.0	3.2	10.6
ESE	.2	1.7	2.9	3.0	.1	.0	.0	.0	.0	.0	.0	7.9	9.5
SE	.7	.5	2.6	2.5	.4	.0	.0	.0	.0	.0	.0	6.7	10.1
SSE	.7	.6	1.8	.4	.0	.0	.0	.0	.0	.0	.0	3.5	6.8
S	1.0	2.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.4
SSW	2.1	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	4.9	4.4
SW	2.0	2.7	1.1	.5	.0	.0	.0	.0	.0	.0	.0	6.3	5.2
WSW	1.9	4.2	3.9	1.3	.0	.0	.0	.0	.0	.0	.0	11.3	6.6
W	5.6	10.7	7.0	2.0	.1	.0	.0	.0	.0	.0	.0	25.5	6.0
WNW	3.5	5.8	2.6	.7	.0	.0	.0	.0	.0	.0	.0	12.6	5.3
NW	1.7	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	3.5	4.6
NNW	.6	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.7	4.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	.0
ALL	21.1	32.6	26.2	12.4	1.0	.0	.0	.0	.0	.0	.0	100.0	6.1

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05



1 - SURFACE WINDS

013025 : ROJA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : ALL

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL	MEAN
	DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED			
N		.7	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.0			
NNE		.5	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.2			
NE		.6	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0			
ENE		1.1	1.2	.4	.2	.0*	.0	.0	.0	.0	.0	.0	.0	2.8	5.1			
E		3.1	2.4	1.0	1.0	.2	.1	.0	.0	.0	.0	.0	.0	7.8	5.8			
ESE		.9	1.2	1.6	2.2	.4	.0*	.0	.0	.0	.0	.0	.0	6.2	9.5			
SE		.5	1.0	1.4	2.4	.3	.0*	.0	.0	.0	.0	.0	.0	5.5	10.2			
SSE		.6	1.3	1.6	1.3	.0*	.0	.0	.0	.0	.0	.0	.0	4.7	8.1			
S		1.2	2.8	2.9	1.0	.0*	.0	.0	.0	.0	.0	.0	.0	7.9	6.9			
SSW		1.0	1.8	2.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.6			
SW		.8	2.0	3.0	1.0	.0*	.0	.0	.0	.0	.0	.0	.0	6.8	7.4			
WSW		.8	2.4	4.5	2.1	.1	.0	.0	.0	.0	.0	.0	.0	9.9	8.2			
W		1.7	4.3	8.0	4.0	.2	.0	.0	.0	.0	.0	.0	.0	18.2	8.2			
WNW		1.0	2.0	2.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	6.6	7.5			
NW		.7	1.3	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.7			
NNW		.7	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.2			
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0			
ALL		15.7	26.9	31.9	17.9	1.3	.1	.0	.0	.0	.0	.0	.0	100.0	7.0			

TOTAL NO. OF OBS : 6695

NOTES :  
 \* = PERCENT < .05

# 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)														
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.8	78.1	80.9	82.3	82.8	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
>=20000	18.8	79.5	82.3	83.8	84.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
>=18000	18.8	80.0	82.8	84.2	84.7	84.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
>=16000	18.8	80.0	82.8	84.2	84.7	84.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
>=14000	18.8	80.1	82.9	84.4	84.8	84.8	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
>=12000	18.8	80.1	83.0	84.5	85.0	85.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
>=10000	18.9	81.1	84.0	85.4	85.9	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>= 9000	19.0	81.5	84.4	85.8	86.3	86.3	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
>= 8000	19.1	83.2	86.0	87.5	88.0	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
>= 7000	19.1	83.2	86.0	87.5	88.0	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
>= 6000	19.3	83.3	86.2	87.6	88.1	88.1	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 5000	19.4	83.5	86.4	88.0	88.4	88.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
>= 4500	19.4	83.6	86.5	88.1	88.6	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>= 4000	19.4	84.2	87.2	88.8	89.3	89.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
>= 3500	19.4	84.5	87.5	89.0	89.5	89.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
>= 3000	19.4	85.3	88.3	90.0	90.5	90.5	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
>= 2500	19.6	86.9	89.9	91.6	92.1	92.1	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>= 2000	19.9	88.1	91.1	93.0	93.5	93.5	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
>= 1800	20.0	88.6	91.6	93.5	94.0	94.0	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>= 1500	20.0	89.8	92.8	94.9	95.4	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>= 1200	20.1	90.3	93.5	95.7	96.1	96.1	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>= 1000	20.2	91.2	94.5	97.0	97.5	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 900	20.2	91.2	94.5	97.0	97.5	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 800	20.2	91.3	94.6	97.2	97.8	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>= 700	20.3	91.8	95.2	97.8	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>= 600	20.3	91.8	95.2	97.8	98.4	98.4	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 500	20.3	91.8	95.2	98.0	98.7	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 400	20.3	91.8	95.2	98.1	98.8	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 300	20.3	91.8	95.2	98.1	98.9	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 200	20.3	91.8	95.2	98.1	98.9	98.9	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 100	20.3	91.8	95.2	98.1	98.9	98.9	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 0	20.3	91.8	95.2	98.1	98.9	98.9	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NO. OF OBS : 831

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.9	73.5	76.7	77.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
>=20000	16.9	73.7	77.2	78.4	79.4	79.4	79.4	79.4	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
>=18000	16.9	74.3	77.9	79.1	80.1	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=16000	16.9	74.4	78.0	79.2	80.2	80.2	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
>=14000	16.9	74.5	78.2	79.4	80.3	80.3	80.3	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
>=12000	16.9	75.0	78.8	80.0	80.9	80.9	80.9	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
>=10000	17.3	76.2	80.1	81.3	82.2	82.2	82.2	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
>=9000	17.3	76.4	80.2	81.4	82.4	82.4	82.4	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
>=8000	17.3	77.7	81.5	82.7	83.8	83.8	83.8	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
>=7000	17.5	78.3	82.1	83.3	84.4	84.4	84.4	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
>=6000	17.6	78.4	82.2	83.4	84.5	84.5	84.5	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
>=5000	17.8	79.4	83.2	84.4	85.5	85.5	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
>=4500	17.9	79.5	83.3	84.5	85.6	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
>=4000	17.9	80.2	84.0	85.2	86.3	86.3	86.3	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
>=3500	18.0	80.4	84.3	85.5	86.6	86.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
>=3000	18.2	81.8	85.6	86.8	87.9	88.0	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>=2500	18.6	83.9	87.9	89.1	90.2	90.3	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>=2000	18.8	85.2	89.4	90.9	92.0	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=1800	19.0	85.6	89.8	91.4	92.4	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
>=1500	19.3	87.0	91.4	93.4	94.5	94.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>=1200	19.3	88.1	92.6	94.6	95.7	95.8	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>=1000	19.7	89.2	93.8	95.9	97.0	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=900	19.7	89.3	93.9	96.2	97.2	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=800	19.7	89.6	94.1	96.5	97.6	97.7	98.1	98.1	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=700	19.7	89.7	94.2	96.8	98.0	98.1	98.4	98.4	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=600	19.7	89.7	94.4	96.9	98.1	98.2	98.6	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>=500	19.7	89.7	94.5	97.0	98.2	98.3	98.7	98.7	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
>=400	19.7	89.7	94.6	97.4	98.7	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=300	19.7	89.7	94.6	97.4	98.7	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=200	19.7	89.7	94.7	97.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=100	19.7	89.7	94.7	97.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 0	19.7	89.7	94.7	97.5	98.8	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 833

## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	20.6	57.9	62.4	65.1	66.7	67.2	67.9	68.0	68.0	68.0	68.0	68.0	68.2	68.2	68.4	68.7
>=20000	20.7	59.6	64.1	66.8	68.4	68.8	69.6	69.7	69.7	69.7	69.7	69.7	69.9	69.9	70.1	70.4
>=18000	20.7	60.0	64.5	67.2	68.7	69.2	69.9	70.1	70.1	70.1	70.1	70.1	70.3	70.3	70.4	70.8
>=16000	20.7	60.1	64.6	67.3	68.8	69.3	70.1	70.2	70.2	70.2	70.2	70.2	70.4	70.4	70.5	70.9
>=14000	20.7	60.1	64.6	67.4	69.0	69.5	70.2	70.3	70.3	70.3	70.3	70.3	70.5	70.5	70.7	71.0
>=12000	20.7	60.2	64.7	67.5	69.1	69.6	70.3	70.4	70.4	70.4	70.4	70.4	70.7	70.7	70.8	71.2
>=10000	21.2	61.3	65.9	68.8	70.4	70.9	71.6	71.8	71.8	71.8	71.8	71.8	72.0	72.0	72.1	72.5
>=9000	21.3	61.9	66.7	69.6	71.2	71.6	72.4	72.5	72.5	72.5	72.5	72.5	72.7	72.7	72.8	73.2
>=8000	21.9	64.4	69.6	72.5	74.1	74.5	75.3	75.4	75.4	75.4	75.4	75.4	75.6	75.6	75.8	76.1
>=7000	22.4	65.0	70.2	73.2	74.8	75.3	76.1	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.6	77.0
>=6000	22.4	65.0	70.2	73.2	74.8	75.3	76.1	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.6	77.0
>=5000	22.7	65.6	70.8	73.8	75.4	75.9	76.7	76.8	76.8	76.8	76.8	76.8	77.1	77.1	77.2	77.6
>=4500	22.8	66.1	71.3	74.3	75.9	76.4	77.2	77.3	77.3	77.3	77.3	77.3	77.6	77.6	77.7	78.1
>=4000	22.9	66.5	71.9	75.2	76.7	77.2	78.1	78.2	78.2	78.2	78.2	78.2	78.4	78.4	78.5	78.9
>=3500	23.6	67.6	73.0	76.4	77.9	78.4	79.3	79.4	79.4	79.4	79.4	79.4	79.6	79.6	79.8	80.1
>=3000	24.2	70.2	75.9	79.5	81.1	81.7	82.5	82.7	82.7	82.7	82.7	82.7	82.9	82.9	83.0	83.4
>=2500	24.6	72.1	77.8	81.7	83.4	84.0	85.0	85.1	85.1	85.1	85.1	85.1	85.3	85.3	85.5	85.8
>=2000	25.3	75.3	81.1	85.0	86.8	87.4	88.5	88.6	88.6	88.6	88.6	88.6	88.8	88.8	89.0	89.3
>=1800	25.3	75.5	81.3	85.2	87.0	87.6	88.7	88.8	88.8	88.8	88.8	88.8	89.1	89.1	89.2	89.6
>=1500	25.6	77.3	83.5	88.0	90.2	90.8	91.9	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.4	92.7
>=1200	26.1	79.2	85.3	90.2	92.5	93.1	94.2	94.3	94.3	94.3	94.3	94.3	94.5	94.5	94.7	95.0
>=1000	26.3	80.2	86.9	92.0	94.4	95.0	96.2	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.7	97.1
>=900	26.3	80.4	87.0	92.1	94.7	95.3	96.5	96.6	96.6	96.6	96.6	96.6	96.8	96.8	97.0	97.3
>=800	26.3	80.6	87.3	92.4	95.0	95.6	96.8	97.0	97.0	97.0	97.1	97.1	97.3	97.3	97.5	97.8
>=700	26.3	80.7	87.5	92.6	95.3	96.0	97.2	97.3	97.3	97.3	97.5	97.5	97.7	97.7	97.8	98.2
>=600	26.3	80.7	87.8	92.8	95.8	96.5	97.7	97.8	97.9	97.9	98.1	98.1	98.3	98.3	98.4	98.8
>=500	26.3	81.0	88.1	93.2	96.1	96.8	98.1	98.2	98.3	98.4	98.5	98.5	98.8	98.8	98.9	99.3
>=400	26.3	81.0	88.1	93.2	96.2	97.0	98.2	98.4	98.5	98.7	98.8	98.8	99.0	99.0	99.2	99.5
>=300	26.3	81.0	88.2	93.3	96.4	97.1	98.3	98.5	98.7	98.8	98.9	98.9	99.2	99.2	99.3	99.8
>=200	26.3	81.0	88.2	93.3	96.4	97.1	98.3	98.5	98.7	98.8	98.9	98.9	99.2	99.2	99.4	100.0
>=100	26.3	81.0	88.2	93.3	96.4	97.1	98.3	98.5	98.7	98.8	98.9	98.9	99.2	99.2	99.4	100.0
>=0	26.3	81.0	88.2	93.3	96.4	97.1	98.3	98.5	98.7	98.8	98.9	98.9	99.2	99.2	99.4	100.0

TOTAL NO. OF OBS : 825

2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUN  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	23.9	61.8	64.1	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
>=20000	24.0	64.1	66.4	67.6	67.6	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
>=18000	24.0	64.5	66.8	68.0	68.1	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
>=16000	24.1	64.7	67.0	68.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
>=14000	24.1	64.7	67.2	68.4	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
>=12000	24.1	64.8	67.4	68.6	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
>=10000	24.8	65.8	68.4	69.7	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
>=9000	25.1	66.7	69.2	70.6	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
>=8000	25.7	69.1	71.9	73.3	73.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
>=7000	26.5	70.8	73.7	75.0	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
>=6000	26.6	71.0	73.9	75.2	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>=5000	26.8	71.3	74.3	75.6	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
>=4500	27.1	72.1	75.0	76.3	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
>=4000	27.2	72.8	75.7	77.1	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
>=3500	27.6	74.0	77.1	78.4	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
>=3000	27.8	76.1	79.4	80.9	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
>=2500	28.2	78.7	82.2	83.7	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>=2000	29.3	82.1	85.8	87.6	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
>=1800	29.4	82.4	86.0	87.9	88.5	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
>=1500	30.3	86.6	91.3	93.6	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>=1200	30.5	87.4	92.4	95.0	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>=1000	31.0	88.4	93.6	96.7	97.4	97.5	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
>=900	31.0	88.4	93.6	96.8	97.5	97.7	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0
>=800	31.0	88.4	93.8	97.2	98.0	98.2	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5
>=700	31.0	88.4	93.8	97.2	98.4	98.5	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
>=600	31.0	88.4	93.9	97.3	98.5	98.7	98.8	98.8	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1
>=500	31.0	88.4	93.9	97.5	98.8	98.9	99.1	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6
>=400	31.0	88.4	93.9	97.5	98.8	98.9	99.1	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8
>=300	31.0	88.4	93.9	97.5	98.8	98.9	99.1	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8
>=200	31.0	88.4	93.9	97.7	98.9	99.0	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9
>=100	31.0	88.4	93.9	97.7	98.9	99.0	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9
>=0	31.0	88.4	93.9	97.7	98.9	99.0	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 816

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8
UNLIMIT	28.5	73.1	76.0	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
>=20000	28.8	75.8	78.7	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
>=18000	28.8	76.1	78.9	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>=16000	28.8	76.2	79.0	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
>=14000	28.8	76.2	79.0	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
>=12000	28.8	76.4	79.3	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
>=10000	29.3	77.3	80.1	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
>= 9000	29.7	78.3	81.2	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
>= 8000	30.4	81.3	84.3	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
>= 7000	30.9	82.7	85.6	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
>= 6000	31.0	82.8	85.8	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>= 5000	31.2	83.2	86.1	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>= 4500	31.3	83.3	86.3	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
>= 4000	31.5	84.4	87.4	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
>= 3500	31.8	84.8	87.7	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>= 3000	32.5	86.9	89.8	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
>= 2500	33.0	88.6	91.7	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>= 2000	33.7	90.4	93.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>= 1800	33.7	90.8	94.0	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 1500	34.6	92.8	96.1	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>= 1200	34.6	93.1	96.4	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>= 1000	34.7	93.4	96.8	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 900	34.7	93.4	96.8	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
>= 800	34.7	93.4	96.8	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 700	34.7	93.4	96.8	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 600	34.7	93.5	96.9	98.4	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 500	34.7	93.5	96.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 400	34.7	93.5	96.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 300	34.7	93.5	96.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 200	34.7	93.6	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 100	34.7	93.6	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 0	34.7	93.6	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 815

## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN

PERIOD OF RECORD : 1958-1987

CLASS : ALL WEATHER

CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUN  
HOUR : 1600 LSTPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	30.8	78.3	81.5	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
>=20000	31.4	81.6	84.9	86.1	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
>=18000	31.4	82.1	85.5	86.9	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
>=16000	31.4	82.2	85.6	87.0	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=14000	31.7	82.6	86.0	87.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>=12000	31.7	82.8	86.3	87.6	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>=10000	31.9	83.6	87.0	88.3	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>=8000	32.3	84.0	87.5	88.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>=6000	33.1	85.9	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=4000	33.3	86.5	89.9	91.4	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>=2500	33.4	86.6	90.1	91.5	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
>=2000	33.4	86.9	90.3	91.8	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
>=1800	33.5	87.0	90.4	91.9	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=1500	33.7	88.5	91.9	93.4	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=1200	33.7	89.0	92.4	93.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=1000	34.0	90.8	94.2	95.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>=800	34.5	91.5	95.1	96.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=600	34.6	92.4	96.0	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=400	34.6	92.5	96.1	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=200	34.8	93.6	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=100	34.8	93.7	97.4	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=0	34.8	93.9	97.5	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=800	34.8	93.9	97.5	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=600	34.8	94.0	97.7	99.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	34.8	94.0	97.7	99.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	34.8	94.0	97.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	34.8	94.0	97.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	34.8	94.0	97.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 815

## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	31.9	77.9	81.3	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
>=20000	32.6	81.1	84.5	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2
>=18000	32.6	81.5	85.1	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8
>=16000	32.6	81.5	85.1	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8
>=14000	32.6	81.8	85.5	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2
>=12000	32.6	82.4	86.2	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9
>=10000	33.0	83.0	86.8	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.6
>= 9000	33.2	84.0	87.8	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8
>= 8000	33.5	86.0	90.2	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.3
>= 7000	33.7	86.5	90.7	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7
>= 6000	33.7	86.6	90.8	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.9
>= 5000	33.7	86.7	90.9	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0
>= 4500	33.8	87.0	91.1	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2
>= 4000	33.8	87.2	91.4	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5
>= 3500	33.8	87.7	91.9	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.0
>= 3000	33.9	88.3	92.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
>= 2500	34.3	89.8	94.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
>= 2000	34.8	90.7	95.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
>= 1800	34.8	90.8	95.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.7
>= 1500	34.9	91.5	96.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
>= 1200	35.1	91.8	96.4	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9
>= 1000	35.1	91.9	96.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5
>= 900	35.1	91.9	96.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5
>= 800	35.2	92.0	96.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6
>= 700	35.2	92.0	96.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.6
>= 600	35.2	92.0	96.8	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.8
>= 500	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>= 400	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>= 300	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0
>= 200	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0
>= 100	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0
>= 0	35.2	92.0	96.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NO. OF OBS : 813



## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.3	78.2	81.4	83.1	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
>=20000	21.4	80.3	83.4	85.1	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
>=18000	21.4	81.0	84.2	86.0	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
>=16000	21.4	81.1	84.3	86.1	86.8	86.8	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=14000	21.4	81.2	84.4	86.2	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
>=12000	21.4	81.7	85.0	87.0	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
>=10000	21.6	82.7	86.0	87.9	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>= 9000	21.9	83.6	86.8	88.8	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
>= 8000	21.9	84.3	87.7	89.8	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
>= 7000	21.9	84.7	88.1	90.1	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
>= 6000	21.9	84.8	88.2	90.3	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
>= 5000	22.0	85.0	88.4	90.6	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
>= 4500	22.2	85.4	88.8	91.0	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
>= 4000	22.2	85.9	89.3	91.5	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 3500	22.2	86.1	89.5	91.7	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>= 3000	22.4	87.2	90.6	92.9	93.7	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
>= 2500	22.5	88.2	91.6	94.0	94.8	94.8	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>= 2000	22.7	89.2	92.7	95.2	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 1800	22.7	89.3	92.8	95.4	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 1500	22.8	90.3	94.0	96.6	97.3	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>= 1200	22.8	90.6	94.4	97.1	97.8	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 1000	22.8	91.1	95.0	97.8	98.5	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 900	22.8	91.4	95.2	98.1	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 800	22.9	91.5	95.6	98.4	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 700	22.9	91.5	95.6	98.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 600	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 500	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 400	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 300	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 200	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 100	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	22.9	91.5	95.6	98.5	99.5	99.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 821

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	24.0	72.3	75.5	76.9	77.5	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.9
>=20000	24.3	74.5	77.7	79.1	79.7	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1
>=18000	24.3	74.9	78.2	79.7	80.3	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7
>=16000	24.3	75.0	78.3	79.8	80.4	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.8
>=14000	24.3	75.2	78.5	80.0	80.6	80.6	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0
>=12000	24.3	75.4	78.8	80.3	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.4
>=10000	24.7	76.4	79.8	81.3	81.9	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
>=9000	24.9	77.0	80.5	82.1	82.7	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.1
>=8000	25.3	79.0	82.6	84.2	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2
>=7000	25.6	79.7	83.3	84.9	85.6	85.6	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0
>=6000	25.7	79.8	83.4	85.1	85.7	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1
>=5000	25.8	80.2	83.8	85.5	86.1	86.2	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.6
>=4500	25.9	80.5	84.1	85.8	86.4	86.5	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.9
>=4000	26.0	81.2	84.8	86.6	87.2	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.7
>=3500	26.2	81.7	85.4	87.1	87.8	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2
>=3000	26.5	83.3	87.0	88.9	89.6	89.7	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.1
>=2500	26.9	84.9	88.8	90.6	91.3	91.4	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.9	91.9
>=2000	27.3	86.6	90.6	92.6	93.3	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.9	93.9	93.9	94.0
>=1800	27.4	86.9	90.9	92.9	93.6	93.7	94.0	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2
>=1500	27.7	88.6	92.8	95.1	95.9	96.0	96.3	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5
>=1200	27.9	89.3	93.5	96.0	96.8	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4
>=1000	28.0	89.9	94.3	96.9	97.8	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
>=900	28.0	90.0	94.4	97.0	97.9	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6
>=800	28.1	90.1	94.6	97.3	98.2	98.4	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	99.0
>=700	28.1	90.2	94.7	97.4	98.5	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.3
>=600	28.1	90.2	94.8	97.5	98.6	98.8	99.1	99.2	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4
>=500	28.1	90.2	94.8	97.7	98.8	98.9	99.3	99.4	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6
>=400	28.1	90.2	94.9	97.7	98.9	99.0	99.4	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.8
>=300	28.1	90.2	94.9	97.7	98.9	99.1	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.9
>=200	28.1	90.2	94.9	97.8	98.9	99.1	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9	100.0
>=100	28.1	90.2	94.9	97.8	98.9	99.1	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9	100.0
>=0	28.1	90.2	94.9	97.8	98.9	99.1	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8	99.9	100.0

TOTAL NO. OF OBS : 6569

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56								
N	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.3
NNE	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.2
NE	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.7
ENE	1.0	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.8
E	4.6	3.2	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	4.6
ESE	1.5	2.2	3.9	2.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	8.7
SE	2.2	2.3	2.2	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	7.4
SSE	1.7	1.8	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.0
S	3.3	5.3	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	4.7
SSW	1.8	2.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.1
SW	1.7	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	4.2
WSW	1.2	2.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.6
W	2.1	3.2	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.4
WNW	1.5	1.6	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.0
NW	.9	2.4	2.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.7
NNW	1.5	1.0	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.5	.0
ALL	26.5	30.7	19.7	7.4	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4.9

TOTAL NO. OF OBS : 867

NOTES :  
 \* = PERCENT < .05

## 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 0000 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	1.5	1.4		.1			.1	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.3
NNE	1.4	.3		.3			.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.4
NE	1.8			.1			.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.3
ENE	2.4	2.4		.6			.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	3.9
E	7.3	8.5		1.7			1.2	.0	.0	.0	.0	.0	.0	.0	.0	18.7	4.6
ESE	3.1	2.7		2.5			.6	.1	.0	.0	.0	.0	.0	.0	.0	9.0	5.6
SE	1.2	1.2		1.5			.3	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.2
SSE	1.5	1.5		1.5			.2	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.6
S	1.4	3.9		1.7			.3	.0	.0	.0	.0	.0	.0	.0	.0	7.4	5.4
SSW	1.5	1.4		.5			.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.1
SW	.2	.5		.9			.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.1
WSW	1.4	1.0		.7			.1	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.9
W	.9	1.6		1.8			.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.9
WNW	1.0	2.1		.8			.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.9
NW	1.8	2.7		1.4			.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.0
NNW	2.1	2.5		1.0			.1	.0	.0	.0	.0	.0	.0	.0	.0	5.8	4.6
VAR	.0	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	14.6	.0
ALL	30.6	34.5		17.3			2.9	.1	.0	.0	.0	.0	.0	.0	.0	100.0	4.2

TOTAL NO. OF OBS : 867

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	2.5	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	3.6
NNE	1.3	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.0
NE	2.2	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	3.8
ENE	5.8	3.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	3.4
E	9.6	5.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	16.2	3.6
ESE	2.3	1.7	1.4	.8	.1	.1	.0	.0	.0	.0	.0	.0	6.5	6.2
SE	1.6	1.5	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	5.1	6.6
SSE	1.2	2.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.8
S	1.4	2.4	2.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.0
SSW	.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.5
SW	.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.5
WSW	.6	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.2
W	1.5	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.6
WNW	1.4	1.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.8
NW	1.7	2.6	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.0
NNW	1.3	3.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	4.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.4	.0
ALL	35.7	34.6	12.2	2.6	.3	.1	.0	.0	.0	.0	.0	.0	100.0	3.9

TOTAL NO. OF OBS : 868

NOTES :  
\* = PERCENT < .05

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.7	1.6	2.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.6
NNE	.6	1.2	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.3
NE	.9	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.8
ENE	1.2	1.2	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.2
E	1.3	3.5	2.2	2.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	8.0
ESE	.2	1.4	3.0	2.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	10.6
SE	.5	1.3	2.0	2.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	9.4
SSE	1.0	3.2	2.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.4
S	2.4	4.3	5.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2	6.6
SSW	.8	2.9	1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	5.6
SW	1.2	1.7	2.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.0
WSW	1.6	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.9
W	1.2	4.2	3.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	6.1
WNW	.5	2.1	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.6
NW	.3	1.5	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.4
NNW	.3	1.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0
ALL	14.7	34.0	33.9	12.4	1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.8

TOTAL NO. OF OBS : 862

NOTES :  
\* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL	MEAN
	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED			
DIR.																		
N	.0	.3			.1	.2	.0	.0	.0	.0	.0	.0	.0	.7	8.5			
NNE	.0	.2			.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	7.0			
NE	.0	.0			.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	10.0			
ENE	.1	.1			.1	.1	.0	.0	.0	.0	.0	.0	.0	.5	6.5			
E	.0	.3			1.0	.7	.5	.0	.0	.0	.0	.0	.0	2.6	11.3			
ESE	.2	.2			.9	2.1	1.3	.0	.0	.0	.0	.0	.0	4.8	13.1			
SE	.0	.1			1.4	2.3	.7	.0	.0	.0	.0	.0	.0	4.5	13.0			
SSE	.2	.3			2.4	2.4	.6	.1	.0	.0	.0	.0	.0	6.2	11.3			
S	.2	2.7			5.4	2.3	.1	.0	.0	.0	.0	.0	.0	10.7	8.4			
SSW	.6	3.3			4.3	1.0	.0	.0	.0	.0	.0	.0	.0	9.1	7.6			
SW	.0	4.7			6.4	.7	.0	.0	.0	.0	.0	.0	.0	11.8	7.2			
WSW	.3	4.1			9.7	1.2	.0	.0	.0	.0	.0	.0	.0	15.3	7.6			
W	.1	3.6			16.2	4.2	.0	.0	.0	.0	.0	.0	.0	24.1	8.7			
WNW	.1	.3			4.2	2.6	.0	.0	.0	.0	.0	.0	.0	7.2	9.8			
NW	.0	.2			.6	.5	.0	.0	.0	.0	.0	.0	.0	1.3	9.6			
NNW	.2	.1			.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	7.0			
VAR	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
ALL	2.1	20.7			53.3	20.6	3.1	.1	.0	.0	.0	.0	.0	100.0	8.9			

TOTAL NO. OF OBS : 858

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

C13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)															TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56						
N	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	5.0	
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ENE	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	6.0	
E	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	13.3	
ESE	.0	.0	.6	2.0	.5	.2	.0	.0	.0	.0	.0	3.3	.0	.0	.0	14.6	
SE	.0	.0	.9	3.4	1.3	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	14.0	
SSE	.0	.1	1.2	3.3	.5	.0	.0	.0	.0	.0	.0	5.0	.0	.0	.0	12.8	
S	.1	.8	2.2	.9	.3	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0	9.5	
SSW	.2	.8	1.7	1.2	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	8.6	
SW	.0	1.6	6.5	1.9	.1	.0	.0	.0	.0	.0	.0	10.1	.0	.0	.0	8.9	
WSW	.2	2.0	10.5	6.8	.0	.0	.0	.0	.0	.0	.0	19.4	.0	.0	.0	9.7	
W	.3	4.0	20.0	12.5	.2	.0	.0	.0	.0	.0	.0	37.0	.0	.0	.0	9.7	
WNW	.1	.5	4.2	3.7	.1	.0	.0	.0	.0	.0	.0	8.6	.0	.0	.0	10.4	
NW	.0	.2	.8	.6	.1	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	10.1	
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ALL	1.0	10.4	48.8	36.4	3.1	.2	.0	.0	.0	.0	.0	100.0	.0	.0	.0	10.2	

TOTAL NO. OF OBS : 859

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	SPEED		WIND				
N	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0		.0				
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
ENE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.0		.0				
E	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.6	15.6		.0				
ESE	.0	.0	.9	3.0	.3	.1	.0	.0	.0	.0	.0	.0	4.4	13.6		.0				
SE	.0	.1	1.6	3.8	.9	.0	.0	.0	.0	.0	.0	.0	6.5	12.8		.0				
SSE	.1	.1	1.4	1.4	.1	.0	.0	.0	.0	.0	.0	.0	3.1	11.1		.0				
S	.0	.9	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.0		.0				
SSW	.1	.7	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.5		.0				
SW	.1	2.4	3.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	7.4	7.7		.0				
WSW	.1	3.1	9.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	17.6	9.1		.0				
W	.1	6.5	22.7	12.5	.1	.0	.0	.0	.0	.0	.0	.0	41.9	9.2		.0				
WNW	.1	1.3	7.8	3.3	.0	.0	.0	.0	.0	.0	.0	.0	12.6	9.1		.0				
NW	.0	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.9	9.0		.0				
NNW	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.0		.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
ALL	.7	15.6	50.3	31.6	1.7	.1	.0	.0	.0	.0	.0	.0	100.0	9.5		.0				

TOTAL NO. OF OBS : 867

NOTES :  
 \* = PERCENT < .05

## 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

16 PT.		1	1	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)				SPEED				TOTAL		MEAN
DIR.		1	1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	1	1	1	1	1
N		.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.3	2.3
NNE		.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.3	1.7
NE		.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	5.0
ENE		.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	5.0
E		.2	.7	.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	8.1
ESE		.1	.9	2.4	3.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.7	.7	11.0
SE		.3	.6	2.8	2.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	10.1
SSE		.2	.5	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	8.3
S		1.2	1.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.3	5.1
SSW		1.5	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	4.7
SW		1.7	3.9	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	4.7
WSW		3.2	5.7	3.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	5.2
W		6.2	11.8	8.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	5.6
WNW		3.7	6.5	3.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	5.0
NW		2.1	1.0	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	4.6
NNW		.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.7	.7	1.5
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL		22.3	34.4	24.3	9.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100.0	100.0	100.0	5.6

TOTAL NO. OF OBS : 867

NOTES :  
\* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL	MEAN
	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	z	WIND	SPEED
N	.7	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.8	
NNE	.5	.5	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.6	
NE	.7	.5	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	4.1	
ENE	1.3	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.3	
E	2.9	2.7	1.1	.8	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	5.4	
ESE	.9	1.1	2.0	2.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	9.6	
SE	.7	.9	1.7	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	9.9	
SSE	.8	1.2	1.4	1.1	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.1	
S	1.3	2.7	2.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	6.6	
SSW	.9	1.7	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.1	
SW	.7	2.1	2.7	.5	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.8	
WSW	1.1	2.6	4.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	7.6	
W	1.6	4.6	9.3	3.9	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.4	8.0	
WNW	1.1	2.0	3.1	1.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.4	
NW	.9	1.4	1.2	.4	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.2	
NNW	.8	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ALL	16.7	26.9	32.4	15.4	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.7	

TOTAL NO. OF OBS : 6915

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.7	85.6	88.7	91.1	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
>=20000	18.7	86.0	89.1	91.4	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=18000	18.7	86.2	89.3	91.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>=16000	18.7	86.2	89.3	91.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>=14000	18.7	86.2	89.3	91.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>=12000	18.7	86.2	89.3	91.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>=10000	18.8	86.7	89.9	92.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
>=9000	18.8	87.0	90.4	92.7	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>=8000	18.8	87.9	91.3	93.6	94.5	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
>=7000	18.8	88.2	91.5	94.0	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>=6000	18.8	88.2	91.5	94.0	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>=5000	18.8	88.3	91.6	94.1	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>=4000	18.8	88.4	91.8	94.2	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=3500	18.8	88.5	91.9	94.3	95.2	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=3000	18.8	88.5	92.0	94.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
>=2500	18.8	88.9	92.3	94.8	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>=2000	18.8	89.4	92.9	95.5	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>=1800	18.8	89.7	93.2	95.7	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
>=1500	19.0	90.4	94.1	96.8	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=1200	19.3	91.1	94.8	97.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>=1000	19.3	91.3	95.2	98.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=900	19.3	91.3	95.2	98.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=800	19.3	91.5	95.7	98.5	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=700	19.3	91.6	95.9	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=600	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=500	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=300	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=100	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=0	19.3	91.6	95.9	98.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 862

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	17.1	80.3	83.4	86.2	87.3	87.6	87.7	87.7	87.7	88.1	88.1	88.1	88.2	88.2	88.2	88.2
>=20000	17.1	80.9	84.0	86.8	87.8	88.2	88.3	88.3	88.3	88.7	88.7	88.7	88.8	88.8	88.8	88.8
>=18000	17.1	81.0	84.1	86.9	88.0	88.3	88.4	88.4	88.4	88.8	88.8	88.8	88.9	88.9	88.9	88.9
>=16000	17.1	81.0	84.1	86.9	88.0	88.3	88.4	88.4	88.4	88.8	88.8	88.8	88.9	88.9	88.9	88.9
>=14000	17.1	81.0	84.1	86.9	88.0	88.3	88.4	88.4	88.4	88.8	88.8	88.8	88.9	88.9	88.9	88.9
>=12000	17.4	81.5	84.7	87.5	88.5	88.9	89.0	89.0	89.0	89.4	89.4	89.4	89.5	89.5	89.5	89.5
>=10000	17.4	81.7	85.0	87.7	88.8	89.1	89.2	89.2	89.2	89.6	89.6	89.6	89.7	89.7	89.7	89.7
>= 9000	17.4	82.1	85.3	88.1	89.1	89.5	89.6	89.6	89.6	89.9	89.9	89.9	90.0	90.0	90.0	90.0
>= 8000	17.4	82.5	85.8	88.5	89.6	89.9	90.0	90.0	90.0	90.4	90.4	90.4	90.5	90.5	90.5	90.5
>= 7000	17.4	82.9	86.1	88.9	89.9	90.3	90.4	90.4	90.4	90.7	90.7	90.7	90.9	90.9	90.9	90.9
>= 6000	17.4	82.9	86.1	88.9	89.9	90.3	90.4	90.4	90.4	90.7	90.7	90.7	90.9	90.9	90.9	90.9
>= 5000	17.4	82.9	86.2	89.0	90.0	90.4	90.5	90.5	90.5	90.9	90.9	90.9	91.0	91.0	91.0	91.0
>= 4500	17.4	82.9	86.2	89.0	90.0	90.4	90.5	90.5	90.5	90.9	90.9	90.9	91.0	91.0	91.0	91.0
>= 4000	17.4	83.1	86.5	89.2	90.3	90.6	90.7	90.7	90.7	91.1	91.1	91.1	91.2	91.2	91.2	91.2
>= 3500	17.4	83.2	86.6	89.4	90.4	90.7	90.9	90.9	90.9	91.2	91.2	91.2	91.3	91.3	91.3	91.3
>= 3000	17.4	83.3	86.7	89.5	90.5	90.9	91.0	91.0	91.0	91.3	91.3	91.3	91.4	91.4	91.4	91.4
>= 2500	17.4	83.8	87.2	89.9	91.0	91.3	91.4	91.4	91.4	91.8	91.8	91.8	91.9	91.9	91.9	91.9
>= 2000	17.4	84.7	88.4	91.2	92.2	92.6	92.7	92.7	92.7	93.1	93.1	93.1	93.2	93.2	93.2	93.2
>= 1800	17.5	84.8	88.5	91.3	92.4	92.7	92.8	92.8	92.8	93.2	93.2	93.2	93.3	93.3	93.3	93.3
>= 1500	17.8	86.6	90.7	93.8	94.8	95.1	95.3	95.3	95.3	95.6	95.6	95.6	95.7	95.7	95.7	95.7
>= 1200	17.9	87.3	91.6	94.7	95.7	96.1	96.2	96.2	96.2	96.5	96.5	96.5	96.6	96.6	96.6	96.6
>= 1000	17.9	88.0	92.5	95.6	96.8	97.1	97.2	97.2	97.2	97.6	97.6	97.6	97.7	97.7	97.7	97.7
>= 900	17.9	88.2	92.8	95.9	97.1	97.5	97.6	97.6	97.6	97.9	97.9	97.9	98.0	98.0	98.0	98.0
>= 800	18.1	88.5	93.4	96.6	98.0	98.4	98.5	98.5	98.5	98.8	98.8	98.8	99.0	99.0	99.0	99.0
>= 700	18.1	88.7	93.6	97.0	98.5	98.8	99.0	99.0	99.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4
>= 600	18.1	88.7	93.8	97.1	98.6	99.0	99.1	99.1	99.1	99.4	99.4	99.4	99.5	99.5	99.5	99.5
>= 500	18.1	88.8	93.9	97.3	98.8	99.2	99.3	99.3	99.3	99.7	99.7	99.7	99.8	99.8	99.8	99.8
>= 400	18.1	88.8	93.9	97.3	98.8	99.2	99.3	99.3	99.3	99.7	99.7	99.7	99.8	99.8	99.8	99.8
>= 300	18.1	88.9	94.0	97.5	99.0	99.3	99.4	99.4	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9
>= 200	18.1	88.9	94.0	97.5	99.0	99.3	99.4	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
>= 100	18.1	88.9	94.0	97.5	99.0	99.3	99.4	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
>= 0	18.1	88.9	94.0	97.5	99.0	99.3	99.4	99.4	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 864

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN

PERIOD OF RECORD : 1958-1987

CLASS : ALL WEATHER

CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
HOUR : 0700 LSTPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	20.8	66.7	71.5	75.7	76.7	77.6	78.5	78.5	78.5	78.6	78.7	78.8	78.8	78.8	79.0	79.3
>=20000	20.8	67.7	72.4	76.7	77.8	78.6	79.5	79.5	79.5	79.7	79.8	79.9	79.9	79.9	80.0	80.3
>=18000	20.8	68.0	72.8	77.1	78.1	79.0	79.9	79.9	79.9	80.0	80.1	80.2	80.2	80.2	80.3	80.7
>=16000	20.8	68.0	72.9	77.2	78.3	79.1	80.0	80.0	80.0	80.1	80.2	80.3	80.3	80.3	80.5	80.8
>=14000	20.8	68.0	72.9	77.2	78.3	79.1	80.0	80.0	80.0	80.1	80.2	80.3	80.3	80.3	80.5	80.8
>=12000	21.0	68.5	73.4	77.7	78.7	79.5	80.5	80.5	80.5	80.6	80.7	80.8	80.8	80.8	80.9	81.3
>=10000	21.2	68.8	73.8	78.4	79.4	80.2	81.2	81.2	81.2	81.3	81.4	81.5	81.5	81.5	81.6	82.0
>=9000	21.2	69.2	74.2	78.7	79.8	80.6	81.5	81.5	81.5	81.6	81.7	81.9	81.9	81.9	82.0	82.3
>=8000	21.5	70.3	75.6	80.1	81.2	82.0	82.9	82.9	83.0	83.1	83.1	83.3	83.3	83.3	83.4	83.7
>=7000	21.7	71.2	76.5	81.0	82.1	82.9	83.8	83.8	84.0	84.1	84.2	84.2	84.2	84.2	84.3	84.7
>=6000	21.9	71.3	76.6	81.2	82.2	83.0	84.0	84.0	84.1	84.2	84.2	84.3	84.3	84.3	84.4	84.8
>=5000	21.9	71.4	76.7	81.3	82.3	83.3	84.2	84.2	84.2	84.3	84.4	84.5	84.5	84.5	84.7	85.0
>=4500	21.9	71.5	76.9	81.4	82.4	83.4	84.3	84.3	84.3	84.4	84.5	84.7	84.7	84.7	84.8	85.1
>=4000	21.9	71.5	77.0	81.6	82.7	83.6	84.5	84.5	84.5	84.7	84.8	84.9	84.9	84.9	85.0	85.3
>=3500	21.9	71.6	77.1	81.7	82.8	83.7	84.7	84.7	84.7	84.8	84.9	85.0	85.0	85.0	85.1	85.5
>=3000	21.9	72.7	78.1	82.8	83.8	84.9	85.8	85.8	85.8	85.9	86.0	86.2	86.2	86.2	86.3	86.6
>=2500	22.0	73.4	78.8	83.6	84.7	85.7	86.6	86.6	86.6	86.7	86.9	87.0	87.0	87.0	87.1	87.4
>=2000	22.3	75.6	81.2	85.9	87.0	88.0	89.0	89.0	89.1	89.2	89.3	89.3	89.3	89.3	89.4	89.8
>=1800	22.4	75.7	81.3	86.0	87.1	88.1	89.1	89.1	89.1	89.2	89.3	89.4	89.4	89.4	89.5	89.9
>=1500	22.7	77.6	83.5	88.4	89.4	90.5	91.4	91.4	91.4	91.5	91.6	91.7	91.7	91.7	91.9	92.2
>=1200	22.8	78.3	84.2	89.2	90.2	91.3	92.2	92.2	92.2	92.3	92.4	92.6	92.6	92.6	92.7	93.0
>=1000	23.0	79.4	85.6	90.9	92.3	93.5	94.5	94.5	94.5	94.7	94.8	94.9	94.9	94.9	95.0	95.3
>=900	23.0	79.5	85.7	91.2	92.7	93.8	94.9	94.9	94.9	95.0	95.1	95.2	95.2	95.2	95.3	95.7
>=800	23.0	79.9	86.2	91.7	93.4	94.5	95.6	95.7	95.7	95.8	95.9	96.0	96.0	96.0	96.2	96.5
>=700	23.0	79.9	86.3	91.9	93.5	94.7	95.8	96.0	96.0	96.2	96.3	96.4	96.4	96.4	96.5	96.9
>=600	23.0	80.1	86.5	92.2	94.0	95.1	96.4	96.6	96.6	96.9	97.0	97.1	97.1	97.1	97.2	97.6
>=500	23.0	80.2	86.6	92.6	94.4	95.6	96.9	97.1	97.1	97.4	97.6	97.7	97.7	97.7	97.8	98.3
>=400	23.0	80.2	86.9	92.8	94.7	95.8	97.1	97.3	97.3	97.7	97.8	97.9	97.9	97.9	98.0	98.5
>=300	23.0	80.2	86.9	92.8	94.7	95.8	97.1	97.3	97.3	97.7	97.8	97.9	97.9	98.0	98.1	98.6
>=200	23.0	80.2	86.9	92.8	94.7	95.8	97.1	97.3	97.3	97.8	97.9	98.0	98.1	98.1	98.4	99.2
>=100	23.0	80.2	86.9	92.8	94.7	95.8	97.1	97.3	97.3	97.8	97.9	98.0	98.3	98.4	98.8	99.8
>=0	23.0	80.2	86.9	92.8	94.7	95.8	97.1	97.3	97.3	97.8	97.9	98.0	98.3	98.4	98.8	100.0

TOTAL NO. OF OBS : 860

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	26.7	73.7	77.3	79.4	80.0	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5
>=20000	26.8	75.0	78.7	80.8	81.3	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9
>=18000	26.8	75.2	78.9	81.0	81.6	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.2
>=16000	26.8	75.2	78.9	81.0	81.6	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.2
>=14000	26.8	75.3	79.0	81.1	81.7	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3
>=12000	27.0	75.6	79.4	81.5	82.0	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.6
>=10000	27.1	76.4	80.3	82.4	83.0	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5
>=9000	27.1	76.5	80.4	82.5	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.7
>=8000	27.2	77.4	81.3	83.7	84.2	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.8	84.8
>=7000	27.5	78.1	82.0	84.4	84.9	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.5	85.5
>=6000	27.7	78.4	82.4	84.7	85.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.9	85.9
>=5000	27.8	78.8	82.7	85.3	85.9	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4
>=4500	27.8	79.0	83.0	85.5	86.1	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7
>=4000	27.8	79.3	83.3	85.9	86.4	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0
>=3500	27.8	79.4	83.4	86.1	86.7	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.3	87.3
>=3000	27.8	80.8	84.8	87.5	88.1	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.6
>=2500	27.9	81.7	85.9	88.5	89.1	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7	89.7
>=2000	28.7	83.8	88.2	90.8	91.4	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0
>=1800	29.1	84.4	88.9	91.5	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7
>=1500	29.5	86.3	91.2	94.0	94.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2
>=1200	29.5	87.5	92.6	95.6	96.3	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9
>=1000	29.5	88.2	93.6	96.8	97.5	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0
>=900	29.5	88.2	93.6	96.9	97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3
>=800	29.5	88.3	93.7	97.0	97.8	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4
>=700	29.5	88.5	94.0	97.2	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6
>=600	29.5	88.5	94.0	97.3	98.1	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8
>=500	29.5	88.5	94.0	97.6	98.4	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2
>=400	29.5	88.6	94.1	97.7	98.6	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
>=300	29.5	88.6	94.1	97.9	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9
>=200	29.5	88.6	94.1	97.9	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
>=100	29.5	88.6	94.1	97.9	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
>=0	29.5	88.6	94.1	97.9	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NO. OF OBS : 863

## 2 - CEILING VS VISIBILITY

013025 : ROIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	29.6	83.7	87.6	88.8	89.3	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
>=20000	29.6	84.5	88.8	90.0	90.4	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
>=18000	29.6	84.6	88.9	90.1	90.5	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>=16000	29.6	84.8	89.0	90.2	90.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>=14000	29.6	84.8	89.0	90.2	90.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>=12000	29.8	85.0	89.3	90.5	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>=10000	29.9	85.6	89.8	91.1	91.6	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
>=9000	30.1	85.8	90.1	91.3	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>=8000	30.3	86.7	91.0	92.3	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
>=7000	30.4	87.2	91.6	92.8	93.4	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=6000	30.4	87.2	91.6	92.8	93.4	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=5000	30.4	87.4	91.8	93.1	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=4500	30.4	87.4	91.8	93.1	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=4000	30.5	88.0	92.4	93.6	94.2	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>=3500	30.5	88.2	92.6	93.9	94.5	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
>=3000	30.6	88.8	93.2	94.6	95.2	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
>=2500	30.7	89.3	93.6	95.0	95.6	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>=2000	31.2	90.3	94.8	96.4	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
>=1800	31.2	90.5	95.0	96.7	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=1500	31.3	91.3	96.1	97.7	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>=1200	31.3	91.5	96.2	97.8	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>=1000	31.4	92.0	96.8	98.5	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=900	31.4	92.0	96.8	98.5	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=800	31.4	92.0	97.0	98.8	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=700	31.4	92.0	97.0	98.8	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=600	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=500	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=400	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=300	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=200	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	31.4	92.0	97.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 866



## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1/4	>=1/2	>=5/8	>=3/4	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	31.0	88.4	91.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=20000	31.0	89.4	92.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>=18000	31.0	89.7	92.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=16000	31.0	89.7	92.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=14000	31.0	89.7	92.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=12000	31.0	89.8	92.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>=10000	31.4	90.2	93.3	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>=9000	31.4	90.3	93.4	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>=8000	31.6	90.8	94.0	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
>=7000	31.6	91.0	94.2	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>=6000	31.6	91.0	94.2	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>=5000	31.6	91.0	94.2	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>=4500	31.6	91.0	94.2	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>=4000	31.7	91.4	94.5	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
>=3500	31.9	91.6	94.8	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=3000	31.9	92.0	95.1	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>=2500	32.0	92.4	95.6	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=2000	32.6	93.1	96.3	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=1800	32.6	93.3	96.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=1500	32.7	93.6	96.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=1200	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=1000	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=900	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=800	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=700	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=600	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=500	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=300	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=100	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=0	32.7	93.6	97.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 860

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																			
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	30.8	89.8	92.5	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
>=20000	30.8	90.9	93.5	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
>=18000	30.8	91.4	94.1	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
>=16000	30.8	91.4	94.1	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
>=14000	30.8	91.4	94.1	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
>=12000	31.0	91.8	94.6	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
>=10000	31.1	92.3	95.0	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
>= 9000	31.2	92.4	95.1	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	
>= 8000	31.2	92.4	95.1	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	
>= 7000	31.2	92.5	95.4	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
>= 6000	31.2	92.5	95.4	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
>= 5000	31.2	92.5	95.4	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
>= 4500	31.3	92.6	95.5	97.1	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
>= 4000	31.3	92.7	95.6	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
>= 3500	31.3	92.8	95.7	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
>= 3000	31.4	93.5	96.4	98.2	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	
>= 2500	31.4	93.6	96.5	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	
>= 2000	31.4	93.8	96.6	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
>= 1800	31.4	93.8	96.6	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	
>= 1500	31.4	94.1	97.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
>= 1200	31.6	94.2	97.2	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
>= 1000	31.6	94.3	97.3	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
>= 900	31.6	94.3	97.3	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
>= 800	31.6	94.5	97.5	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
>= 700	31.6	94.5	97.6	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
>= 600	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 500	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 400	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 300	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 200	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 100	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
>= 0	31.6	94.5	97.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NO. OF OBS : 865

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	20.6	85.7	90.5	93.7	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>=20000	20.6	86.5	91.3	94.7	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=18000	20.6	86.7	91.4	94.8	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=16000	20.6	86.7	91.4	94.8	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=14000	20.6	86.7	91.4	94.8	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=12000	20.8	86.9	91.6	95.0	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
>=10000	20.9	87.2	92.2	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
>=9000	20.9	87.4	92.3	95.7	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>=8000	21.0	88.4	93.4	96.8	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>=7000	21.0	88.5	93.6	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=6000	21.0	88.5	93.6	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=5000	21.0	88.5	93.6	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=4500	21.0	88.6	93.7	97.2	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>=4000	21.0	88.7	93.9	97.3	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=3500	21.0	88.7	93.9	97.3	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=3000	21.0	88.9	94.0	97.4	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>=2500	21.0	89.0	94.1	97.6	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>=2000	21.0	89.0	94.2	97.7	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=1800	21.1	89.1	94.3	97.8	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>=1500	21.1	89.4	94.7	98.1	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=1200	21.2	89.9	95.2	98.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=1000	21.2	90.0	95.4	99.1	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=900	21.2	90.0	95.4	99.1	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=800	21.2	90.0	95.4	99.1	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=700	21.2	90.0	95.5	99.2	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=600	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=500	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=400	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=300	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=200	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	21.2	90.0	95.5	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 862

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUL  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	24.4	81.8	85.4	87.8	88.4	88.6	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
>=20000	24.4	82.6	86.3	88.8	89.4	89.6	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
>=18000	24.4	82.9	86.5	89.1	89.7	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2
>=16000	24.4	82.9	86.6	89.1	89.7	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.3
>=14000	24.4	82.9	86.6	89.1	89.7	89.9	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3
>=12000	24.6	83.1	86.9	89.4	90.0	90.2	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6
>=10000	24.7	83.6	87.4	90.0	90.6	90.8	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
>=9000	24.8	83.8	87.7	90.2	90.8	91.0	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4
>=8000	24.9	84.6	88.4	91.0	91.7	91.9	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2
>=7000	24.9	84.9	88.9	91.5	92.1	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7
>=6000	25.0	85.0	88.9	91.6	92.2	92.4	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8
>=5000	25.0	85.1	89.0	91.7	92.3	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9
>=4500	25.0	85.2	89.1	91.8	92.4	92.7	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0
>=4000	25.1	85.4	89.4	92.1	92.7	92.9	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3
>=3500	25.1	85.5	89.5	92.2	92.8	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.5
>=3000	25.1	86.1	90.0	92.8	93.4	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0
>=2500	25.2	86.5	90.5	93.2	93.9	94.1	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5
>=2000	25.4	87.5	91.6	94.4	95.0	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6
>=1800	25.5	87.7	91.8	94.6	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8
>=1500	25.7	88.7	93.0	95.9	96.6	96.8	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2
>=1200	25.8	89.2	93.6	96.6	97.2	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8
>=1000	25.8	89.6	94.2	97.2	98.0	98.2	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6
>=900	25.8	89.7	94.2	97.3	98.1	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7
>=800	25.8	89.8	94.5	97.6	98.4	98.7	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
>=700	25.8	89.9	94.6	97.8	98.6	98.8	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
>=600	25.8	89.9	94.7	97.9	98.7	99.0	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5
>=500	25.8	89.9	94.7	98.0	98.8	99.1	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
>=400	25.8	89.9	94.7	98.0	98.9	99.2	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
>=300	25.8	89.9	94.7	98.1	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8
>=200	25.8	89.9	94.7	98.1	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.9
>=100	25.8	89.9	94.7	98.1	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0
>=0	25.8	89.9	94.7	98.1	98.9	99.2	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NO. OF OBS : 6902

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)											TOTAL	MEAN	
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	Σ	SPEED
N	.7		.9		.3	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.8
NNE	.3		.5		.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.1
NE	1.3		.7		.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.8
ENE	1.3		1.2		.2	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.9
E	4.1		2.4		1.5	1.0	.2	.0	.0	.0	.0	.0	.0	9.3	5.4
ESE	2.3		2.0		2.8	1.7	.6	.0	.0	.0	.0	.0	.0	9.3	8.0
SE	2.3		1.4		1.3	1.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.1
SSE	1.5		2.3		.8	.7	.0	.0	.0	.0	.0	.0	.0	5.3	5.8
S	4.3		4.4		1.3	.5	.0	.0	.0	.0	.0	.0	.0	10.4	4.3
SSW	2.2		.8		.6	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.5
SW	1.5		1.5		.5	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.5
WSW	1.8		1.3		.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.8
W	1.7		3.0		1.4	.2	.0	.0	.0	.0	.0	.0	.0	6.3	5.2
WNW	1.2		1.4		1.6	.3	.0	.0	.0	.0	.0	.0	.0	4.5	6.0
NW	1.7		2.2		3.3	.3	.0	.0	.0	.0	.0	.0	.0	7.6	6.3
NNW	1.8		1.7		1.7	.3	.0	.0	.0	.0	.0	.0	.0	5.6	5.5
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	17.7	.0
ALL	30.1		27.5		17.6	6.2	.8	.0	.0	.0	.0	.0	.0	100.0	4.4

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : AUG  
 CLASS : ALL WEATHER HOUR : 0400 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)										TOTAL		MEAN
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	
N	2.3	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	4.7	3.8
NNE	1.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.8
NE	1.7	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.0
ENE	3.1	2.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	6.0	3.6
E	6.9	7.4	.9	.7	.1	.0	.0	.0	.0	.0	.0	16.1	4.3
ESE	1.8	2.2	1.3	.9	.1	.0	.0	.0	.0	.0	.0	6.4	6.4
SE	1.0	1.4	1.3	.7	.0	.0	.0	.0	.0	.0	.0	4.4	6.3
SSE	.8	2.8	1.3	.1	.1	.0	.0	.0	.0	.0	.0	5.1	5.8
S	1.8	2.8	2.0	.3	.0	.0	.0	.0	.0	.0	.0	6.9	5.4
SSW	2.3	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	4.6	3.8
SW	1.0	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.8
WSW	1.0	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.0
W	1.2	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	2.2	4.6
WNW	1.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.8
NW	1.8	3.5	1.4	.1	.0	.0	.0	.0	.0	.0	.0	6.8	4.9
NNW	2.0	2.7	2.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	4.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.1	.0
ALL	31.1	34.5	14.0	3.0	.3	.0	.0	.0	.0	.0	.0	100.0	3.9

TOTAL NO. OF OBS : 866

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56			%	SPEED	WIND				
N		2.3	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	3.9					
NNE		2.0	2.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.0					
NE		2.0	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.1					
ENE		5.1	3.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	3.6					
E	10.0		6.0	.7	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	17.4	3.9					
ESE		1.5	2.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.9					
SE		1.4	.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.1					
SSE		.6	1.5	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.9					
S		.9	2.6	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.0					
SSW		1.2	.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.7					
SW		.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.5					
WSW		.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.7					
W		1.0	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.1					
WNW		.9	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.1					
NW		2.0	3.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	4.8					
NNW		3.5	2.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	3.8					
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	.0					
ALL		35.0	35.6	11.1	2.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	3.7					

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL		MEAN
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96	%	WIND	
N	.8	2.4	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	6.1	
NNE	.8	1.3	1.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.7	
NE	.5	2.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	6.3	
ENE	1.2	2.2	2.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	5.7	
E	1.2	3.3	3.1	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	7.0	
ESE	1.7	2.2	3.2	2.5	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.2	9.5	
SE	.7	.9	1.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.2	
SSE	1.5	2.3	2.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.2	
S	2.4	4.8	4.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	6.0	
SSW	.9	2.2	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.9	
SW	1.2	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.1	
WSW	1.2	1.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.3	
W	1.3	2.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.8	
WNW	.8	2.7	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.5	
NW	.2	1.0	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.1	
NNW	.7	1.5	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	
ALL	17.0	33.9	34.9	9.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.6	

TOTAL NO. OF OBS : 866

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL >=56	MEAN % WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55								
N	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.3
NNE	.1	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.6
NE	.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.9
ENE	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.1
E	.5	.2	.8	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	9.1
ESE	.1	.2	.7	2.4	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	14.1
SE	.1	.5	.9	2.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	12.4
SSE	.0	1.0	2.6	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	10.1
S	.2	1.9	5.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	8.1
SSW	.2	3.1	4.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.4
SW	.3	4.1	6.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	7.0
WSW	.1	5.0	6.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	7.3
W	.5	7.1	13.4	2.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.7	8.0
WNW	.1	.8	5.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	9.8
NW	.1	.6	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.6
NNW	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
ALL	3.1	26.9	48.7	18.8	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.5

TOTAL NO. OF OBS : 860

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
N	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	12.0
NNE	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	8.7
NE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	12.0
ENE	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.0
E	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	11.5
ESE	.0	.1	.2	2.8	.9	.3	.0	.0	.0	.0	.0	4.4	15.4
SE	.1	.0	.7	2.5	.3	.1	.0	.0	.0	.0	.0	3.8	13.5
SSE	.0	.0	1.0	2.9	.5	.0	.0	.0	.0	.0	.0	4.4	12.9
S	.0	.5	2.9	.8	.2	.0	.0	.0	.0	.0	.0	4.4	9.5
SSW	.0	.9	2.1	1.3	.0	.0	.0	.0	.0	.0	.0	4.3	9.2
SW	.2	1.7	5.8	.9	.1	.0	.0	.0	.0	.0	.0	8.8	8.2
WSW	.1	2.9	9.8	3.6	.0	.0	.0	.0	.0	.0	.0	16.5	8.9
W	.1	4.3	21.0	13.8	.2	.0	.0	.0	.0	.0	.0	39.4	9.7
WNW	.1	1.0	5.6	4.9	.1	.0	.0	.0	.0	.0	.0	11.7	10.1
NW	.0	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.8	11.6
NNW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	10.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	.7	11.7	49.9	34.5	2.4	.5	.0	.0	.0	.0	.0	100.0	10.0

TOTAL NO. OF OBS : 863

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : AUG  
 CLASS : ALL WEATHER HOUR : 1900 LST  
 CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL		MEAN
DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED
N		.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	11.5
NNE		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE		.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.0
ENE		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E		.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	11.3
ESE		.0	.0	.9	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	14.6
SE		.0	.2	.8	3.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	12.7
SSE		.2	.3	2.4	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	10.1
S		.3	1.3	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.7
SSW		.1	.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.3
SW		.2	1.4	3.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.7
WSW		.1	2.5	7.6	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	8.5
W		.2	8.3	23.3	13.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45.0	9.1
WNW		.1	2.8	7.5	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	8.8
NW		.1	.9	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.7
NNW		.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.4
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
ALL		1.6	18.7	49.8	27.6	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9.2

TOTAL NO. OF OBS : 868

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56								%	SPEED
N		.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0			
NNE		.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.7			
NE		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
ENE		.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	10.0			
E		.3	.7	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	8.3			
ESE		.5	.6	2.3	2.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	11.1			
SE		.6	1.4	2.7	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	8.3			
SSE		.6	2.2	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.6			
S		2.3	1.5	.6	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4.4			
SSW		2.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.3			
SW		2.4	3.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	4.0			
WSW		2.5	5.9	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	4.8			
W		6.2	10.7	7.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.4	5.6			
WNW		4.2	6.1	2.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	4.8			
NW		.9	2.7	1.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.8			
NNW		1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.6			
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	.0			
ALL		24.8	37.1	20.8	6.0	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.2			

TOTAL NO. OF OBS : 867

NOTES :  
 \* = PERCENT < .05

013025  
 PERIOD  
 CLASS  
 CONDT

CEILIN

UNLIMIT

>=2000

>=1800

>=1600

>=1400

>=1200

>=1000

>= 900

>= 800

>= 700

>= 600

>= 500

>= 450

>= 400

>= 350

>= 300

>= 250

>= 200

>= 180

>= 150

>= 120

>= 100

>= 90

>= 80

>= 70

>= 60

>= 50

>= 40

>= 30

>= 20

>= 10

>=

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL %	MEAN WIND SPEED	
		SPEED (KNOTS)																	
N	.9	1.1						.6	.1	.0	.0	.0	.0	.0	.0	.0	2.7	4.8	
NNE	.5	.7						.4	.1	.0*	.0	.0	.0	.0	.0	.0	1.8	5.3	
NE	.7	.9						.4	.1	.0	.0	.0	.0	.0	.0	.0	2.0	4.8	
ENE	1.3	1.3						.5	.0*	.0	.0	.0	.0	.0	.0	.0	3.1	4.2	
E	2.9	2.5						1.1	.6	.1	.0*	.0	.0	.0	.0	.0	7.2	5.3	
ESE	1.0	1.2						1.6	1.8	.8	.1	.0*	.0	.0	.0	.0	6.5	9.9	
SE	.8	.8						1.3	1.6	.1	.0*	.0	.0	.0	.0	.0	4.6	9.0	
SSE	.6	1.6						1.5	1.1	.1	.0	.0	.0	.0	.0	.0	5.0	8.0	
S	1.5	2.5						2.5	.5	.0*	.0	.0	.0	.0	.0	.0	7.1	6.1	
SSW	1.1	1.4						1.3	.3	.0	.0	.0	.0	.0	.0	.0	4.1	5.8	
SW	.9	2.0						2.2	.2	.0*	.0	.0	.0	.0	.0	.0	5.3	6.3	
WSW	.9	2.6						3.2	.9	.0	.0	.0	.0	.0	.0	.0	7.6	7.1	
W	1.5	4.6						8.6	3.9	.1	.0	.0	.0	.0	.0	.0	18.8	8.1	
WNW	1.1	2.1						3.3	1.6	.0*	.0	.0	.0	.0	.0	.0	8.1	7.6	
NW	.9	1.8						1.5	.5	.0*	.0	.0	.0	.0	.0	.0	4.7	6.4	
NNW	1.2	1.1						.9	.1	.0	.0	.0	.0	.0	.0	.0	3.3	5.1	
VAR	.0	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	
ALL	17.9	28.3						30.8	13.4	1.3	.2	.0*	.0	.0	.0	.0	100.0	6.4	

TOTAL NO. OF OBS : 6926

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	19.1	86.1	90.4	91.7	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>=20000	19.1	87.1	91.3	92.6	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=18000	19.1	87.1	91.3	92.6	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=16000	19.1	87.1	91.3	92.6	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=14000	19.1	87.1	91.3	92.6	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=12000	19.2	87.4	91.7	92.9	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=10000	19.3	87.7	92.0	93.4	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>= 9000	19.3	88.0	92.3	93.6	94.3	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
>= 8000	19.7	88.9	93.2	94.6	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
>= 7000	19.7	89.1	93.4	94.8	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>= 6000	19.7	89.2	93.5	94.9	95.6	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>= 5000	19.9	89.6	93.9	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 4500	19.9	89.6	93.9	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 4000	19.9	89.6	93.9	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 3500	19.9	89.6	93.9	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 3000	19.9	89.6	93.9	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>= 2500	19.9	89.6	94.1	95.5	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 2000	20.1	90.1	94.7	96.3	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
>= 1800	20.1	90.1	94.7	96.3	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
>= 1500	20.1	90.4	95.0	96.6	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>= 1200	20.2	91.0	95.7	97.6	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>= 1000	20.2	91.6	96.3	98.2	98.8	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 900	20.2	91.6	96.3	98.2	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 800	20.2	91.8	96.5	98.4	99.2	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 700	20.2	91.8	96.5	98.4	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 600	20.2	91.8	96.5	98.5	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 500	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 400	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 300	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 200	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 100	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	20.2	91.8	96.5	98.6	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 865

## 2 - CEILING VS VISIBILITY

013025 : ROT1A, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
HOUR : 2400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.2	83.5	87.8	90.5	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=20000	18.2	83.7	88.0	90.7	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
>=18000	18.2	83.9	88.2	90.8	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>=16000	18.2	83.9	88.2	90.8	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>=14000	18.2	83.9	88.2	90.8	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>=12000	18.2	84.0	88.3	90.9	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
>=10000	18.4	84.3	88.6	91.3	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
>=9000	18.4	84.6	88.9	91.5	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>=8000	18.6	85.2	89.7	92.3	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
>=7000	18.6	85.5	89.9	92.7	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
>=6000	18.6	85.6	90.0	92.8	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=5000	18.6	85.8	90.2	93.0	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=4500	18.6	85.8	90.2	93.0	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=4000	18.6	85.8	90.2	93.0	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=3500	18.6	85.8	90.2	93.0	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=3000	18.6	85.9	90.4	93.1	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=2500	18.6	86.3	90.8	93.6	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=2000	18.9	86.9	91.4	94.2	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>=1800	18.9	87.1	91.8	94.5	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=1500	19.0	88.0	92.8	96.1	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>=1200	19.0	88.5	93.4	96.6	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=1000	19.0	88.9	94.1	97.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=900	19.0	88.9	94.1	97.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=800	19.0	88.9	94.4	98.0	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=700	19.0	88.9	94.4	98.1	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=600	19.2	89.0	94.5	98.3	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>=500	19.2	89.0	94.5	98.3	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>=400	19.2	89.0	94.5	98.3	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	19.2	89.0	94.5	98.3	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	19.2	89.0	94.5	98.3	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	19.2	89.0	94.5	98.3	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	19.2	89.0	94.5	98.3	99.3	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 861

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	21.5	72.3	77.8	80.7	83.0	83.6	84.4	84.7	84.7	84.7	84.9	84.9	84.9	85.0	85.0	85.0
>=20000	21.7	72.9	78.3	81.3	83.6	84.2	85.0	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.6	85.6
>=18000	21.7	72.9	78.3	81.4	83.7	84.3	85.1	85.4	85.4	85.4	85.6	85.6	85.6	85.7	85.7	85.9
>=16000	21.7	72.9	78.3	81.4	83.7	84.3	85.1	85.4	85.4	85.4	85.6	85.6	85.6	85.7	85.7	85.9
>=14000	21.8	73.0	78.5	81.5	83.8	84.4	85.2	85.6	85.6	85.6	85.7	85.7	85.7	85.8	85.8	86.0
>=12000	21.9	73.1	78.6	81.6	83.9	84.5	85.3	85.7	85.7	85.7	85.8	85.8	85.8	85.9	85.9	86.1
>=10000	22.0	74.0	79.5	82.5	84.9	85.4	86.3	86.6	86.6	86.6	86.7	86.7	86.7	86.8	86.8	87.1
>= 9000	22.1	74.4	80.0	83.0	85.3	85.9	86.7	87.1	87.1	87.1	87.2	87.2	87.2	87.3	87.3	87.5
>= 8000	22.5	75.4	81.3	84.4	86.7	87.3	88.1	88.5	88.5	88.5	88.6	88.6	88.6	88.7	88.7	88.9
>= 7000	22.6	75.9	81.7	84.9	87.2	87.8	88.6	88.9	88.9	88.9	89.1	89.1	89.1	89.2	89.2	89.4
>= 6000	22.6	75.9	81.7	84.9	87.2	87.8	88.6	88.9	88.9	88.9	89.1	89.1	89.1	89.2	89.2	89.4
>= 5000	22.6	76.1	82.1	85.3	87.7	88.2	89.1	89.4	89.4	89.4	89.5	89.5	89.5	89.6	89.6	89.9
>= 4500	22.6	76.1	82.2	85.4	87.8	88.4	89.2	89.5	89.5	89.5	89.6	89.6	89.6	89.8	89.8	90.0
>= 4000	22.6	76.3	82.4	85.8	88.1	88.7	89.5	89.9	89.9	89.9	90.0	90.0	90.0	90.1	90.1	90.3
>= 3500	22.6	76.5	82.7	86.0	88.4	88.9	89.9	90.2	90.2	90.2	90.3	90.3	90.3	90.5	90.5	90.7
>= 3000	22.6	76.8	83.0	86.4	88.7	89.3	90.2	90.6	90.6	90.6	90.7	90.7	90.7	90.8	90.8	91.0
>= 2500	22.6	77.2	83.5	86.8	89.2	89.8	90.7	91.0	91.0	91.0	91.2	91.2	91.2	91.3	91.3	91.5
>= 2000	22.7	77.9	84.3	88.0	90.3	90.9	91.9	92.2	92.2	92.2	92.3	92.3	92.3	92.4	92.4	92.7
>= 1800	22.7	78.1	84.6	88.4	90.7	91.3	92.2	92.5	92.5	92.5	92.7	92.7	92.7	92.8	92.8	93.0
>= 1500	22.9	79.9	86.4	90.3	92.7	93.2	94.3	94.6	94.6	94.6	94.8	94.8	94.8	94.9	94.9	95.1
>= 1200	22.9	80.1	86.7	91.0	93.5	94.1	95.1	95.5	95.5	95.5	95.6	95.6	95.6	95.7	95.7	95.9
>= 1000	23.1	80.7	87.9	92.3	94.9	95.6	96.6	97.0	97.0	97.0	97.1	97.1	97.1	97.2	97.2	97.4
>= 900	23.1	80.8	88.0	92.5	95.1	95.8	96.9	97.2	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.7
>= 800	23.1	81.0	88.4	92.9	95.6	96.5	97.9	98.3	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.7
>= 700	23.1	81.1	88.5	93.0	95.7	96.6	98.0	98.4	98.4	98.4	98.5	98.5	98.5	98.6	98.6	98.8
>= 600	23.1	81.1	88.5	93.0	95.7	96.6	98.1	98.5	98.5	98.5	98.6	98.6	98.6	98.7	98.7	99.0
>= 500	23.1	81.1	88.6	93.1	95.8	96.7	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	99.2
>= 400	23.1	81.1	88.6	93.1	95.8	96.7	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.8	98.8	99.2
>= 300	23.1	81.1	88.6	93.1	95.8	96.7	98.3	98.6	98.6	98.6	98.8	98.8	98.8	99.1	99.1	99.4
>= 200	23.1	81.1	88.6	93.1	95.9	96.9	98.4	98.7	98.7	98.7	99.0	99.0	99.0	99.3	99.3	99.7
>= 100	23.1	81.1	88.6	93.1	95.9	96.9	98.4	98.7	98.7	98.7	99.0	99.0	99.0	99.3	99.3	99.9
>= 0	23.1	81.1	88.6	93.1	95.9	96.9	98.4	98.7	98.7	98.7	99.0	99.0	99.0	99.3	99.3	100.0

TOTAL NO. OF OBS : 859



## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	29.7	78.9	81.5	81.8	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
>=20000	29.8	79.8	82.5	82.7	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
>=18000	29.8	79.9	82.6	82.8	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
>=16000	29.8	80.0	82.7	82.9	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>=14000	29.8	80.0	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
>=12000	30.0	80.3	82.9	83.3	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
>=10000	30.0	80.6	83.3	83.6	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
>=9000	30.0	81.3	84.0	84.3	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
>=8000	30.4	82.6	85.4	85.8	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
>=7000	30.4	82.8	85.6	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>=6000	30.4	82.8	85.6	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>=5000	30.4	83.2	85.9	86.4	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>=4500	30.4	83.2	85.9	86.4	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>=4000	30.4	83.5	86.3	86.8	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>=3500	30.4	83.9	86.6	87.1	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=3000	30.4	84.4	87.3	87.9	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
>=2500	30.9	85.4	88.5	89.1	89.4	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
>=2000	31.2	87.0	90.6	91.3	91.6	91.8	91.8	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>=1800	31.5	87.5	91.4	92.1	92.5	92.6	92.6	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
>=1500	31.7	89.2	94.0	95.0	95.4	95.5	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>=1200	31.7	89.4	94.3	95.4	95.7	95.8	95.8	95.9	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>=1000	32.1	90.5	95.5	96.9	97.2	97.3	97.4	97.7	97.7	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>=900	32.2	90.6	95.7	97.2	97.6	97.7	97.8	98.0	98.0	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>=800	32.2	90.8	96.2	97.7	98.4	98.5	98.6	98.8	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=700	32.2	90.9	96.3	97.8	98.5	98.6	98.7	99.0	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=600	32.2	90.9	96.3	97.8	98.6	98.7	98.8	99.1	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=500	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=400	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=300	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=200	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=100	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=0	32.2	91.1	96.5	98.0	99.1	99.2	99.4	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 861

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	31.1	86.3	89.9	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
>=20000	31.1	87.0	90.6	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=18000	31.1	87.1	90.7	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>=16000	31.1	87.1	90.7	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>=14000	31.2	87.2	90.8	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
>=12000	31.3	87.6	91.2	91.7	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=10000	31.5	88.1	91.9	92.4	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=9000	31.5	88.5	92.3	92.7	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
>=8000	31.9	89.7	93.4	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
>=7000	32.0	89.9	93.7	94.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=6000	32.0	89.9	93.7	94.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=5000	32.0	90.0	93.8	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>=4000	32.3	90.5	94.2	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>=3500	32.4	90.6	94.4	95.0	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=3000	32.4	91.4	95.3	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
>=2500	32.4	92.0	96.1	96.8	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
>=2000	32.7	93.8	98.0	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>=1800	32.7	94.0	98.2	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=1500	32.9	94.5	98.7	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=1200	32.9	94.5	98.7	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>=1000	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=900	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=800	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=700	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=600	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=500	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=400	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=300	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=200	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	32.9	94.6	98.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 852

# 2 - CEILING VS VISIBILITY

STATION : KANSAS CITY  
 PERIOD : 01/01/00 - 12/31/07  
 DATA : ALL STATIONS  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)																
	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
>= 1000	33.1	89.5	92.4	93.0	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
>= 900	33.1	91.0	94.1	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 800	33.1	91.0	94.1	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 700	33.1	91.0	94.1	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 600	33.1	91.0	94.1	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 500	33.1	91.2	94.2	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>= 400	33.3	91.7	94.9	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>= 300	33.4	92.1	95.2	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>= 200	34.0	93.4	96.6	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>= 100	34.0	93.8	97.1	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>= 0	34.0	93.8	97.1	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>= 1000	34.0	93.9	97.2	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 900	34.0	93.9	97.2	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 800	34.1	94.1	97.3	98.0	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>= 700	34.1	94.1	97.3	98.0	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
>= 600	34.2	94.3	97.6	98.3	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>= 500	34.5	94.5	97.8	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 400	34.8	95.3	98.6	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 300	34.8	95.3	98.6	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	34.9	95.6	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 100	34.9	95.6	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 0	34.9	95.6	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 1000	34.9	95.6	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 900	34.9	95.6	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 800	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 700	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 600	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 500	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 400	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 300	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 200	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 100	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	34.9	95.7	99.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 859

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	31.8	89.2	91.8	92.5	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
>=20000	31.8	90.1	92.9	93.7	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=18000	31.8	90.2	93.1	93.8	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
>=16000	31.8	90.2	93.1	93.8	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
>=14000	32.0	90.4	93.2	93.9	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=12000	32.2	90.7	93.5	94.2	94.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
>=10000	32.4	91.5	94.4	95.1	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>=9000	32.4	92.0	94.8	95.5	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>=8000	32.7	93.1	95.9	96.6	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=7000	32.8	93.8	96.7	97.4	97.6	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=6000	32.8	93.8	96.7	97.4	97.6	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=5000	32.9	93.9	96.8	97.5	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>=4500	32.9	93.9	96.8	97.5	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>=4000	32.9	94.0	96.9	97.6	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=3500	32.9	94.0	96.9	97.6	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=3000	33.0	94.1	97.2	97.9	98.1	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>=2500	33.1	94.2	97.3	98.0	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>=2000	33.3	94.5	97.5	98.2	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=1800	33.3	94.5	97.5	98.2	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=1500	33.4	94.9	98.0	98.7	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=1200	33.4	95.1	98.2	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=1000	33.4	95.3	98.5	99.2	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=900	33.4	95.3	98.5	99.2	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=800	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=700	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=600	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=500	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=400	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=300	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=200	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=100	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>=0	33.4	95.5	98.7	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 851

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	21.3	87.8	91.4	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
>=20000	21.3	88.1	92.0	93.8	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
>=18000	21.3	88.5	92.3	94.2	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=16000	21.3	88.5	92.3	94.2	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=14000	21.4	88.6	92.4	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=12000	21.7	88.8	92.7	94.5	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
>=10000	21.7	89.4	93.2	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 9000	21.7	89.6	93.5	95.3	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
>= 8000	22.0	90.4	94.3	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 7000	22.0	90.7	94.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 6000	22.0	90.7	94.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 5000	22.1	90.8	94.6	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>= 4500	22.1	90.8	94.6	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>= 4000	22.1	90.9	94.8	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>= 3500	22.1	90.9	94.8	96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>= 3000	22.1	91.1	95.0	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>= 2500	22.3	91.3	95.2	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>= 2000	22.4	91.5	95.7	97.8	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>= 1800	22.5	91.6	95.8	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 1500	22.6	92.2	96.4	98.5	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 1200	22.6	92.4	96.6	98.7	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 1000	22.6	92.8	97.0	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 900	22.6	92.9	97.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 800	22.6	93.0	97.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 700	22.6	93.0	97.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 600	22.6	93.0	97.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 500	22.6	93.0	97.2	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 400	22.6	93.0	97.3	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 300	22.6	93.0	97.3	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 200	22.6	93.0	97.3	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 100	22.6	93.0	97.3	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 0	22.6	93.0	97.3	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NO. OF OBS : 858

2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : AUG  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2
UNLIMIT	25.7	84.2	87.9	89.2	89.8	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2
>=20000	25.8	85.0	88.7	90.1	90.6	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
>=18000	25.8	85.1	88.8	90.2	90.7	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
>=16000	25.8	85.1	88.8	90.2	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
>=14000	25.8	85.1	88.9	90.3	90.8	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3
>=12000	25.9	85.4	89.1	90.5	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5
>=10000	26.0	85.9	89.7	91.1	91.7	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1
>= 9000	26.1	86.3	90.1	91.5	92.0	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5
>= 8000	26.4	87.3	91.2	92.6	93.2	93.3	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>= 7000	26.5	87.7	91.6	93.0	93.6	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>= 6000	26.5	87.7	91.6	93.1	93.6	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1
>= 5000	26.6	87.9	91.8	93.3	93.9	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 4500	26.6	87.9	91.8	93.3	93.9	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 4000	26.6	88.1	92.0	93.5	94.1	94.2	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>= 3500	26.6	88.2	92.1	93.6	94.2	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>= 3000	26.6	88.5	92.4	94.0	94.6	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>= 2500	26.8	88.8	92.9	94.4	95.0	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>= 2000	27.0	89.6	93.8	95.5	96.1	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 1800	27.0	89.8	94.1	95.7	96.3	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8
>= 1500	27.2	90.6	95.0	96.8	97.4	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9
>= 1200	27.2	90.8	95.3	97.2	97.8	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3
>= 1000	27.3	91.2	95.8	97.8	98.5	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
>= 900	27.3	91.3	95.9	97.9	98.6	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.2
>= 800	27.3	91.4	96.1	98.2	98.9	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
>= 700	27.3	91.4	96.2	98.2	98.9	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.6
>= 600	27.3	91.5	96.2	98.2	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 500	27.3	91.5	96.2	98.3	99.1	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 400	27.3	91.5	96.2	98.3	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 300	27.3	91.5	96.2	98.3	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 200	27.3	91.5	96.2	98.3	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 100	27.3	91.5	96.2	98.3	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 0	27.3	91.5	96.2	98.3	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NO. OF OBS : 6866

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)												TOTAL %		MEAN WIND SPEED	
16 PT.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56				
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56				
N	.8	1.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.1		
NNE	1.1	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.3		
NE	.7	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.3		
ENE	2.9	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.0		
E	6.1	3.3	1.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	4.8		
ESE	1.4	2.5	3.8	3.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	11.9	8.9		
SE	.8	.8	1.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.0	8.6		
SSE	1.1	1.7	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.0		
S	2.0	2.5	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.0		
SSW	1.1	1.8	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.8		
SW	1.0	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.0		
WSW	1.2	1.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	5.3		
W	1.9	2.9	2.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	5.7		
WNW	1.1	1.9	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.7		
NW	1.2	2.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.4		
NNW	1.0	2.4	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
ALL	25.2	29.2	18.7	9.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.0		

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)													TOTAL		MEAN	
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED			
N		2.1	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	5.1	4.2				
NNE		1.9	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	4.0	4.7				
NE		1.5	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.8				
ENE		3.7	3.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	7.4	3.5				
E		9.9	7.0	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	20.7	4.4				
ESE		2.1	2.0	2.5	1.3	.1	.0	.0	.0	.0	.0	.0	8.1	6.8				
SE		1.0	1.0	1.4	.7	.0	.0	.0	.0	.0	.0	.0	4.0	7.1				
SSE		1.0	1.2	1.0	.6	.0	.0	.0	.0	.0	.0	.0	3.7	6.4				
S		1.4	2.0	1.2	.1	.1	.0	.0	.0	.0	.0	.0	4.9	5.6				
SSW		.8	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.8				
SW		.5	.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	2.3	6.8				
WSW		.1	1.1	.6	.4	.0	.0	.0	.0	.0	.0	.0	2.1	7.2				
W		.8	1.8	1.1	.4	.0	.0	.0	.0	.0	.0	.0	4.0	5.9				
WNW		1.9	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	3.2	4.2				
NW		1.9	1.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.1				
NNW		.7	3.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.1				
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.2	.0				
ALL		31.4	32.0	16.1	4.9	.4	.0	.0	.0	.0	.0	.0	100.0	4.3				

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND							
N		2.3	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	5.5	4.4	5.2	3.9	3.4	3.8			
NNE		2.0	2.7	1.4	.4	.0	.0	.0	.0	.0	.0	.0	6.5	5.2	6.1	6.0	6.1	6.1			
NE		2.5	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.2	5.2	5.2	5.2	5.2			
ENE		5.2	3.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	8.7	8.7	8.7	8.7	8.7	8.7			
E	13.1	7.9	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	23.5	23.5	23.5	23.5	23.5	23.5			
ESE		1.5	2.9	1.7	.6	.2	.0	.0	.0	.0	.0	.0	6.9	6.9	6.9	6.9	6.9	6.9			
SE		.8	.8	1.3	.5	.1	.0	.0	.0	.0	.0	.0	3.6	3.6	3.6	3.6	3.6	3.6			
SSE		.5	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	1.7	1.7	1.7	1.7			
S		.8	1.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	4.3	4.3	4.3	4.3	4.3	4.3			
SSW		.4	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	2.5	2.5	2.5	2.5	2.5	2.5			
SW		.8	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	2.1	2.1	2.1	2.1			
WSW		.4	1.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	2.4	2.4	2.4	2.4			
W		.7	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	2.6	2.6	2.6	2.6			
WNW		.8	1.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	2.5	2.5	2.5	2.5	2.5	2.5			
NW		1.4	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	3.8	3.8	3.8	3.8	3.8	3.8			
NNW		1.3	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.0	4.0	4.0	4.0	4.0			
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.2	14.2	14.2	14.2	14.2	14.2			
ALL		34.6	33.2	14.3	3.3	.4	.0	.0	.0	.0	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0			

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

## 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1956-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%								
N	1.0	1.4		1.8	.2	.0	.0	.0	.0	.0	.0	.0	4.4	6.5							
NNE	.8	1.5		1.5	.2	.0	.0	.0	.0	.0	.0	.0	4.2	6.3							
NE	1.1	2.3		2.5	.5	.1	.0	.0	.0	.0	.0	.0	6.4								
ENE	1.3	3.1		1.4	.1	.0	.0	.0	.0	.0	.0	.0	6.0	5.2							
E	2.4	4.3		3.3	1.0	.6	.0	.0	.0	.0	.0	.0	11.5	7.0							
ESE	.4	2.4		3.6	4.8	.6	.0	.0	.0	.0	.0	.0	11.7	10.0							
SE	.7	1.8		2.4	1.9	.4	.0	.0	.0	.0	.0	.0	7.1	8.5							
SSE	1.4	2.1		2.0	1.2	.0	.0	.0	.0	.0	.0	.0	6.8	6.8							
S	2.5	2.4		2.0	.4	.1	.0	.0	.0	.0	.0	.0	7.4	5.7							
SSW	1.2	2.1		1.0	.2	.0	.0	.0	.0	.0	.0	.0	4.5	5.3							
SW	.4	1.8		1.1	.1	.0	.0	.0	.0	.0	.0	.0	3.3	6.3							
WSW	.7	1.3		1.3	.1	.0	.0	.0	.0	.0	.0	.0	3.5	5.9							
W	1.2	2.6		2.1	.2	.0	.0	.0	.0	.0	.0	.0	6.2	5.9							
WNW	.8	1.9		1.8	.4	.0	.0	.0	.0	.0	.0	.0	4.9	6.5							
NW	.1	1.3		1.3	.4	.1	.0	.0	.0	.0	.0	.0	3.2	7.7							
NNW	.1	1.2		1.7	.6	.0	.0	.0	.0	.0	.0	.0	3.6	7.7							
VAR	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
CLM	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0							
ALL	16.1	33.6		30.8	12.3	1.9	.0	.0	.0	.0	.0	.0	100.0	6.6							

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : SEP  
 CLASS : ALL WEATHER HOUR : 1300 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	%	SPEED
SPEED (KNOTS)																		
N	.1	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	6.1
NNE	.0	.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	10.8
NE	.1	.4	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	9.7
ENE	.1	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.8
E	.1	1.9	1.1	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	8.6
ESE	.4	1.0	1.1	4.4	1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	12.6
SE	.1	.6	2.2	2.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	10.8
SSE	.2	.7	1.0	2.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	11.2
S	.1	3.6	5.7	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	8.5
SSW	.2	2.3	4.4	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	8.0
SW	.5	4.3	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	6.8
WSW	.5	4.5	5.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.6	7.2
W	.5	6.1	9.3	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.9	7.9
WNW	.2	1.0	4.5	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	9.3
NW	.0	.6	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	8.8
NNW	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0
ALL	3.3	28.6	42.2	21.9	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.6

TOTAL NO. OF OBS : 837

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : SEP  
 CLASS : ALL WEATHER HOUR : 1600 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

SPEED (KNOTS)																TOTAL	MEAN	
16 PT.	1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED
DIR.																		
N	.1		.1			.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7		9.0
NNE	.0		.0			.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2		9.5
NE	.0		.0			.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.7		10.8
ENE	.0		.1			.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2		10.5
E	.0		.1			.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	1.3		11.3
ESE	.0		.1			.5	2.5	.7	.1	.0	.0	.0	.0	.0	.0	3.9		14.5
SE	.0		.2			.6	3.5	1.3	.1	.0	.0	.0	.0	.0	.0	5.7		14.0
SSE	.1		.1			1.4	3.7	.4	.0	.0	.0	.0	.0	.0	.0	5.7		11.9
S	.4		.2			4.9	2.3	.4	.0	.0	.0	.0	.0	.0	.0	8.1		10.0
SSW	.2		.7			2.8	1.0	.1	.0	.0	.0	.0	.0	.0	.0	4.8		8.9
SW	.1		1.6			7.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	9.8		8.1
WSW	.0		2.2			9.6	2.9	.0	.0	.0	.0	.0	.0	.0	.0	14.6		8.8
W	.2		3.6			21.8	9.4	.4	.0	.0	.0	.0	.0	.0	.0	35.4		9.4
WNW	.0		.4			3.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	6.2		10.3
NW	.0		.4			.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.7		9.3
NNW	.2		.0			.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7		7.5
VAR	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CLM	.0		.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
ALL	1.4		9.8			54.2	30.9	3.5	.2	.0	.0	.0	.0	.0	.0	100.0		9.9

TOTAL NO. OF OBS : 836

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL		MEAN	
DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED
N		.2		.4		.1		.0		.0		.0	.0	.0		.0	.7		4.0
NNE		.1		.2		.1		.0		.0		.0	.0	.0		.0	.5		5.8
NE		.2		.0		.1		.2		.0		.0	.0	.0		.0	.6		7.6
ENE		.1		.0		.1		.0		.0		.0	.0	.0		.0	.2		4.5
E		.0		.1		.0		.7		.1		.0	.0	.0		.0	1.0		12.5
ESE		.0		.6		2.1		3.1		.7		.0	.0	.0		.0	6.5		12.0
SE		.0		.5		3.7		3.2		.1		.0	.0	.0		.0	7.5		10.7
SSE		.0		.8		1.9		1.4		.0		.0	.0	.0		.0	4.2		9.2
S		.2		1.3		1.0		.6		.0		.0	.0	.0		.0	3.1		7.2
SSW		.5		1.3		1.1		.2		.0		.0	.0	.0		.0	3.1		6.4
SW		.5		1.9		3.2		.2		.0		.0	.0	.0		.0	5.8		6.9
WSW		.7		4.0		6.9		1.8		.1		.0	.0	.0		.0	13.6		7.8
W		1.2		9.0		19.2		7.6		.0		.0	.0	.0		.0	37.0		8.4
WNW		.5		3.5		6.2		1.7		.1		.0	.0	.0		.0	11.9		8.1
NW		.0		.8		1.4		.7		.0		.0	.0	.0		.0	3.0		8.4
NNW		.1		.5		.0		.2		.0		.0	.0	.0		.0	.8		6.9
VAR		.0		.0		.0		.0		.0		.0	.0	.0		.0	.0		.0
CLM		.0		.0		.0		.0		.0		.0	.0	.0		.0	.5		.0
ALL		4.4		25.0		47.1		21.8		1.2		.0	.0	.0		.0	100.0		8.5

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013D25 : ROTA, SPAIN LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : SEP  
 CLASS : ALL WEATHER HOUR : 2200 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	1.0	.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.4
NNE	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	4.3
NE	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.0
ENE	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.3
E	.8	.7	.5	.5	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.7
ESE	1.1	1.9	3.6	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	9.3
SE	.7	2.9	3.2	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	8.5
SSE	.5	1.1	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.8
S	2.7	.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.9
SSW	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.3
SW	1.8	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.1
WSW	2.4	2.7	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	5.2
W	4.6	8.9	7.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.9	6.1
WNW	3.3	4.0	2.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4	5.4
NW	1.5	3.1	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.0
NNW	1.2	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	3.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0
ALL	23.6	30.6	24.0	11.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.6

TOTAL NO. OF OBS : 840

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)														TOTAL		MEAN
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED			
N	1.0	1.1	.7	.0*	.0*	.0	.0	.0	.0	.0	.0	2.9	5.1				
NNE	.8	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	2.5	5.6				
NE	.8	.8	.6	.2	.0*	.0	.0	.0	.0	.0	.0	2.4	5.5				
ENE	1.7	1.5	.4	.0*	.0	.0	.0	.0	.0	.0	.0	3.6	4.0				
E	4.1	3.2	1.4	.9	.2	.0	.0	.0	.0	.0	.0	9.8	5.2				
ESE	.9	1.7	2.4	3.1	.6	.0*	.0	.0	.0	.0	.0	8.6	9.7				
SE	.5	1.1	2.1	2.0	.4	.0*	.0	.0	.0	.0	.0	6.0	9.6				
SSE	.6	1.0	1.2	1.4	.1	.0*	.0	.0	.0	.0	.0	4.4	8.5				
S	1.3	1.8	2.2	.9	.1	.0	.0	.0	.0	.0	.0	6.3	6.9				
SSW	.7	1.4	1.4	.3	.1	.0	.0	.0	.0	.0	.0	3.9	6.6				
SW	.7	1.8	2.1	.3	.0*	.0	.0	.0	.0	.0	.0	5.0	6.5				
WSW	.7	2.4	3.5	.8	.0*	.0	.0	.0	.0	.0	.0	7.4	7.2				
W	1.4	4.5	8.1	2.8	.1	.0	.0	.0	.0	.0	.0	16.8	7.8				
WNW	1.1	1.8	2.4	1.0	.1	.0	.0	.0	.0	.0	.0	6.4	7.3				
NW	.8	1.4	1.0	.3	.0*	.0	.0	.0	.0	.0	.0	3.5	6.1				
NNW	.6	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.8	5.7				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0				
ALL	17.5	27.8	30.9	14.5	1.5	.1	.0	.0	.0	.0	.0	100.0	6.6				

TOTAL NO. OF OBS : 6713

NOTES :  
 \* = PERCENT < .05

2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	1/4	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.4	81.4	83.6	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>=20000	15.4	83.7	85.9	86.6	86.7	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>=18000	15.4	83.8	86.0	86.7	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=16000	15.4	83.8	86.0	86.7	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=14000	15.6	84.1	86.2	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>=12000	15.8	84.4	86.6	87.3	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=10000	16.2	85.5	87.8	88.5	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=9000	16.3	85.6	88.1	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>=8000	16.6	87.5	89.2	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>=7000	16.6	87.9	90.3	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=6000	16.8	88.1	90.5	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>=5000	16.9	88.2	90.6	91.3	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>=4500	17.0	88.4	90.8	91.6	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
>=4000	17.1	89.0	91.4	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=3500	17.1	89.0	91.4	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=3000	17.1	89.5	91.9	92.8	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
>=2500	17.2	90.2	92.6	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>=2000	17.6	91.1	93.5	94.6	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>=1800	17.7	91.3	93.7	94.8	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=1500	17.9	93.4	95.8	97.1	97.3	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=1200	18.0	93.8	96.3	97.6	97.8	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=1000	18.0	93.8	96.3	97.7	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=900	18.0	94.1	96.6	98.1	98.4	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=800	18.0	94.6	97.1	98.6	98.9	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=700	18.1	94.8	97.5	98.9	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=600	18.1	94.8	97.5	98.9	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=500	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=400	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	18.1	94.8	97.6	99.0	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NO. OF OBS : 829



# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.3	76.4	79.1	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.3	81.4	81.4	81.4	81.5
>=20000	15.3	77.8	80.4	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.7	82.7	82.7	82.8
>=18000	15.3	77.9	80.5	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.8	82.8	82.8	82.9
>=16000	15.3	77.9	80.5	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.8	82.8	82.8	82.9
>=14000	15.3	78.0	80.6	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.9	82.9	82.9	83.1
>=12000	15.4	78.7	81.4	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.7	83.8	83.8	83.8	83.9
>=10000	15.6	80.2	82.9	84.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.3	85.3	85.3	85.5
>=9000	15.7	80.6	83.4	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.8	85.9	85.9	86.1
>=8000	16.3	82.2	85.0	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.3	87.4	87.5	87.5	87.6
>=7000	16.6	82.9	85.7	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.2	88.3	88.5	88.5	88.6
>=6000	16.6	83.1	85.8	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.5	88.6	88.6	88.7
>=5000	16.6	83.4	86.2	88.1	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.7	88.9	88.9	88.9	89.1
>=4500	16.6	83.4	86.2	88.1	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.7	88.9	88.9	88.9	89.1
>=4000	16.6	83.9	86.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.3	89.4	89.5	89.5	89.7
>=3500	16.8	84.3	87.0	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.7	89.8	89.9	89.9	90.0
>=3000	17.1	85.3	88.1	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.9	91.0	91.1	91.1	91.2
>=2500	17.2	85.9	88.7	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.7	91.8	91.9	91.9	92.1
>=2000	17.4	87.0	89.8	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.9	93.0	93.1	93.1	93.3
>=1800	17.4	87.3	90.0	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.1	93.3	93.4	93.4	93.5
>=1500	17.4	88.0	90.9	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	94.0	94.1	94.2	94.2	94.4
>=1200	17.4	88.8	91.9	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.6	95.7	95.7	95.8
>=1000	17.7	90.0	93.4	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.1	97.2	97.4	97.4	97.5
>=900	17.7	90.1	93.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.5	97.6	97.7	97.7	97.8
>=800	17.7	90.5	94.2	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.1	98.2	98.3	98.3	98.4
>=700	17.7	91.1	94.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.9	99.0	99.0	99.2
>=600	17.7	91.1	94.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.9	99.0	99.2	99.2	99.3
>=500	17.7	91.2	95.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.4	99.5	99.5	99.8
>=400	17.7	91.2	95.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.4	99.5	99.5	99.8
>=300	17.7	91.2	95.0	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.4	99.5	99.6	99.6	99.9
>=200	17.7	91.2	95.0	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.4	99.5	99.6	99.6	99.9
>=100	17.7	91.2	95.0	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.4	99.5	99.6	99.6	99.9
>=0	17.7	91.2	95.0	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.4	99.5	99.6	99.6	100.0

TOTAL NO. OF OBS : 832

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.7	67.4	70.2	72.5	73.9	74.1	74.7	75.0	75.0	75.0	75.5	75.5	75.5	75.5	75.5	75.5	76.0	76.0	76.0
>=20000	14.7	69.4	72.4	74.7	76.1	76.2	77.0	77.3	77.3	77.3	77.8	77.8	77.8	77.8	77.8	78.2	78.3	78.3	78.3
>=18000	14.7	69.4	72.4	74.7	76.1	76.2	77.0	77.3	77.3	77.3	77.8	77.8	77.8	77.8	78.2	78.3	78.3	78.3	78.3
>=16000	14.7	69.5	72.5	74.8	76.2	76.4	77.1	77.5	77.5	77.5	78.0	78.0	78.0	78.0	78.3	78.4	78.4	78.4	78.4
>=14000	15.0	70.0	73.0	75.3	76.7	76.9	77.6	78.0	78.0	78.0	78.4	78.4	78.4	78.4	78.4	78.8	78.9	78.9	78.9
>=12000	15.1	70.5	73.6	76.0	77.5	77.6	78.3	78.7	78.7	78.7	79.2	79.2	79.2	79.2	79.5	79.7	79.7	79.7	79.7
>=10000	15.5	72.1	75.2	77.6	79.0	79.2	79.9	80.3	80.3	80.3	80.8	80.8	80.8	80.8	81.1	81.2	81.2	81.2	81.2
>= 9000	16.1	73.2	76.2	78.9	80.4	80.5	81.2	81.6	81.6	81.6	82.1	82.1	82.1	82.1	82.5	82.6	82.6	82.6	82.6
>= 8000	16.3	75.0	78.2	81.2	82.7	82.8	83.6	83.9	83.9	83.9	84.4	84.4	84.4	84.4	84.8	84.9	84.9	84.9	84.9
>= 7000	16.6	75.8	78.9	82.1	83.6	83.7	84.4	84.8	84.8	84.8	85.3	85.3	85.3	85.3	85.6	85.7	85.7	85.7	85.7
>= 6000	16.6	75.8	78.9	82.1	83.6	83.7	84.4	84.8	84.8	84.8	85.3	85.3	85.3	85.3	85.6	85.7	85.7	85.7	85.7
>= 5000	16.9	76.1	79.3	82.5	83.9	84.0	84.8	85.1	85.1	85.1	85.6	85.6	85.6	85.6	86.0	86.1	86.1	86.1	86.1
>= 4500	17.1	76.2	79.4	82.6	84.0	84.2	84.9	85.3	85.3	85.3	85.7	85.7	85.7	85.7	86.1	86.2	86.2	86.2	86.2
>= 4000	17.2	76.7	80.0	83.4	84.9	85.0	85.7	86.1	86.1	86.1	86.6	86.6	86.6	86.6	87.0	87.1	87.1	87.1	87.1
>= 3500	17.2	77.1	80.5	83.9	85.5	85.6	86.4	86.7	86.7	86.7	87.2	87.2	87.2	87.2	87.6	87.7	87.7	87.7	87.7
>= 3000	17.4	78.2	81.6	85.0	86.6	86.7	87.5	87.8	87.8	87.8	88.3	88.3	88.3	88.3	88.7	88.8	88.8	88.8	88.8
>= 2500	17.7	79.2	82.6	86.0	87.6	87.7	88.6	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.8	89.9	89.9	89.9	89.9
>= 2000	17.9	81.0	84.4	87.9	89.6	89.8	90.6	91.0	91.0	91.0	91.5	91.5	91.5	91.5	91.8	92.0	92.0	92.0	92.0
>= 1800	17.9	81.1	84.5	88.1	89.8	89.9	90.7	91.1	91.1	91.1	91.6	91.6	91.6	91.6	92.0	92.1	92.1	92.1	92.1
>= 1500	18.3	83.2	86.7	90.6	92.3	92.4	93.3	93.7	93.7	93.7	94.2	94.2	94.2	94.2	94.5	94.6	94.6	94.6	94.6
>= 1200	18.4	83.7	87.2	91.1	92.8	92.9	93.8	94.2	94.2	94.2	94.6	94.6	94.6	94.6	95.0	95.1	95.1	95.1	95.1
>= 1000	18.8	85.1	88.8	92.9	94.6	94.8	95.6	96.0	96.0	96.0	96.6	96.6	96.6	96.6	97.0	97.1	97.1	97.1	97.1
>= 900	18.8	85.5	89.2	93.3	95.0	95.1	96.0	96.3	96.3	96.3	96.7	96.7	96.7	96.7	97.0	97.3	97.4	97.4	97.4
>= 800	18.8	86.4	90.0	94.4	96.1	96.2	97.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.4	98.7	98.7	98.7	98.7
>= 700	18.8	86.6	90.3	94.6	96.3	96.5	97.3	97.7	97.7	97.7	98.3	98.3	98.3	98.3	98.7	98.9	98.9	98.9	98.9
>= 600	18.8	86.6	90.3	94.6	96.3	96.5	97.3	97.8	97.8	97.8	98.4	98.4	98.4	98.4	98.8	99.0	99.0	99.0	99.0
>= 500	18.8	86.6	90.3	94.6	96.5	96.7	97.6	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.0	99.3	99.3	99.3	99.3
>= 400	18.8	86.6	90.3	94.6	96.5	96.7	97.6	98.1	98.1	98.1	98.8	98.8	98.8	98.8	99.1	99.4	99.4	99.4	99.4
>= 300	18.9	86.7	90.4	94.8	96.6	96.8	97.7	98.2	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.5	99.5	99.5	99.5
>= 200	18.9	86.7	90.4	94.8	96.6	96.8	97.7	98.2	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.5	99.5	99.5	99.5
>= 100	18.9	86.7	90.4	94.8	96.6	96.8	97.7	98.2	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.5	99.5	99.5	99.5
>= 0	18.9	86.7	90.4	94.8	96.6	96.8	97.7	98.2	98.2	98.2	98.9	98.9	98.9	98.9	99.3	99.5	99.5	99.5	100.0

TOTAL NO. OF OBS : 821

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																			
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	22.0	68.9	71.3	72.1	72.3	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	
>=20000	22.0	72.2	74.9	75.9	76.1	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	
>=18000	22.0	72.6	75.2	76.2	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
>=16000	22.0	72.6	75.2	76.2	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
>=14000	22.0	72.6	75.2	76.2	76.5	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
>=12000	22.6	73.5	76.2	77.2	77.4	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	
>=10000	23.0	74.5	77.2	78.2	78.4	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	
>= 9000	23.3	75.6	78.3	79.3	79.5	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	
>= 8000	24.1	78.0	80.9	82.0	82.2	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	
>= 7000	24.4	78.9	81.7	82.9	83.2	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	
>= 6000	24.4	78.9	81.7	82.9	83.2	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	
>= 5000	24.4	79.3	82.1	83.3	83.5	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	
>= 4500	24.5	79.4	82.2	83.4	83.7	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	
>= 4000	24.8	80.5	83.3	84.5	84.8	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	
>= 3500	24.9	81.1	83.9	85.1	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	
>= 3000	25.5	83.4	86.3	87.7	87.9	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	
>= 2500	25.9	85.1	88.3	89.8	90.0	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	
>= 2000	26.2	86.8	90.2	92.1	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	
>= 1800	26.2	87.2	90.6	92.7	92.9	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	
>= 1500	27.1	89.3	93.2	95.4	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
>= 1200	27.6	90.1	94.3	96.6	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
>= 1000	27.6	90.9	95.0	97.4	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	
>= 900	27.6	91.0	95.1	97.7	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	
>= 800	27.6	91.0	95.1	97.8	98.3	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	
>= 700	27.6	91.2	95.4	98.2	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	
>= 600	27.6	91.2	95.4	98.3	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	
>= 500	27.6	91.2	95.4	98.3	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	
>= 400	27.6	91.2	95.4	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	
>= 300	27.6	91.2	95.4	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	
>= 200	27.6	91.2	95.4	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	
>= 100	27.6	91.2	95.4	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	
>= 0	27.6	91.2	95.4	98.3	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	

TOTAL NO. OF OBS : 820

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	26.2	74.7	77.0	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>=20000	26.4	79.1	81.3	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
>=18000	26.4	79.8	82.1	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
>=16000	26.4	80.0	82.2	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
>=14000	26.7	80.2	82.4	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>=12000	27.1	81.3	83.6	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>=10000	27.9	83.8	86.1	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>=9000	28.0	84.6	86.8	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>=8000	28.6	86.8	89.0	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
>=7000	28.9	87.3	89.5	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>=6000	28.9	87.3	89.5	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>=5000	28.9	87.3	89.5	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>=4500	29.0	87.5	89.8	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
>=4000	29.0	87.8	90.0	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>=3500	29.3	88.2	90.4	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=3000	29.5	89.0	91.3	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
>=2500	29.6	90.4	92.8	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>=2000	30.1	91.7	94.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=1800	30.1	91.7	94.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>=1500	31.0	93.6	96.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>=1200	31.3	94.1	97.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>=1000	31.3	94.9	97.9	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=900	31.3	95.0	98.0	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=800	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=700	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=600	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=500	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=400	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	31.3	95.0	98.0	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 803

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

### VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	29.8	79.8	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
>=20000	30.1	84.5	86.3	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
>=18000	30.1	85.1	87.0	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
>=16000	30.1	85.1	87.0	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
>=14000	30.1	85.3	87.2	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>=12000	30.4	86.5	88.3	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=10000	31.3	88.6	90.4	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>=9000	31.4	89.4	91.3	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=8000	31.9	91.4	93.3	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
>=7000	31.9	91.8	93.7	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>=6000	31.9	91.9	93.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=5000	31.9	91.9	93.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=4500	31.9	91.9	93.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>=4000	31.9	92.5	94.4	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>=3500	32.4	93.4	95.3	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>=3000	32.5	93.8	95.7	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>=2500	32.7	94.5	96.4	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
>=2000	32.9	95.8	97.6	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=1800	32.9	96.0	97.9	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>=1500	33.2	96.4	98.3	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=1200	33.2	96.6	98.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=1000	33.2	96.8	98.6	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=900	33.2	96.8	98.6	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=800	33.2	96.8	98.6	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=700	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=600	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=500	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=400	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	33.2	96.9	98.8	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 805

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	29.3	79.9	81.2	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
>=20000	29.4	84.3	85.7	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
>=18000	29.4	84.8	86.2	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=16000	29.4	84.9	86.3	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
>=14000	29.4	85.2	86.5	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
>=12000	30.3	86.8	88.1	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>=10000	30.9	89.2	90.6	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
>= 9000	31.1	90.0	91.5	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 8000	31.8	92.0	93.4	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>= 7000	32.1	92.6	94.1	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>= 6000	32.1	92.6	94.1	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>= 5000	32.1	93.1	94.6	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>= 4500	32.1	93.1	94.6	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>= 4000	32.1	93.3	94.8	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>= 3500	32.1	93.3	94.8	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>= 3000	32.4	94.3	95.9	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>= 2500	32.5	94.6	96.2	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>= 2000	32.9	95.6	97.3	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 1800	32.9	95.6	97.3	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 1500	33.0	96.0	97.8	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 1200	33.0	96.3	98.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 1000	33.0	96.5	98.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 900	33.0	96.5	98.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 800	33.0	96.5	98.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 700	33.0	96.5	98.3	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 600	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 500	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 400	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 300	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 200	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 100	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	33.0	96.5	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 809

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1/2	>=5/8	>=3/4	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.6	81.4	83.9	85.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
>=20000	15.6	83.7	86.3	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=18000	15.6	83.8	86.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>=16000	15.6	83.8	86.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>=14000	15.7	83.9	86.6	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>=12000	15.9	84.8	87.5	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=10000	16.4	86.4	89.1	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>= 9000	16.5	87.2	89.9	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>= 8000	17.0	89.1	91.7	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
>= 7000	17.2	89.7	92.3	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>= 6000	17.3	90.0	92.7	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
>= 5000	17.3	90.1	92.8	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 4500	17.3	90.4	93.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>= 4000	17.3	90.8	93.4	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 3500	17.3	90.8	93.6	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
>= 3000	17.6	91.5	94.3	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>= 2500	17.8	92.3	95.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 2000	18.0	93.4	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 1800	18.1	93.6	96.7	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 1500	18.4	94.3	97.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 1200	18.5	94.4	97.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 1000	18.6	94.5	97.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 900	18.6	94.5	97.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 800	18.6	94.8	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 700	18.6	94.8	97.9	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 600	18.6	94.9	98.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 500	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 400	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 300	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 200	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 100	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
>= 0	18.6	94.9	98.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 822

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : SEP  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	21.0	76.2	78.5	79.5	79.9	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.2	80.2	80.2
>=20000	21.0	79.3	81.6	82.7	83.1	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4
>=18000	21.0	79.6	81.9	83.0	83.4	83.4	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.8
>=16000	21.0	79.7	82.0	83.1	83.4	83.4	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.8	83.8	83.8
>=14000	21.1	79.9	82.2	83.3	83.7	83.7	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0
>=12000	21.5	80.8	83.1	84.3	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	85.0	85.0	85.0
>=10000	22.0	82.5	84.9	86.0	86.3	86.4	86.5	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7
>=9000	22.2	83.3	85.7	86.8	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.6	87.6	87.6
>=8000	22.8	85.2	87.6	88.9	89.3	89.3	89.4	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
>=7000	23.0	85.8	88.3	89.5	89.9	90.0	90.1	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3
>=6000	23.0	85.9	88.4	89.6	90.0	90.1	90.2	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4
>=5000	23.1	86.1	88.6	89.8	90.2	90.3	90.4	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.7
>=4500	23.1	86.3	88.7	90.0	90.4	90.4	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.8	90.8	90.8
>=4000	23.2	86.8	89.2	90.6	91.0	91.0	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.4	91.4	91.4
>=3500	23.3	87.1	89.6	90.9	91.3	91.4	91.5	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.8
>=3000	23.6	88.1	90.6	92.0	92.4	92.5	92.6	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.9
>=2500	23.7	89.0	91.6	93.0	93.5	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.9	93.9	93.9
>=2000	24.1	90.3	92.9	94.5	95.0	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.4
>=1800	24.1	90.4	93.1	94.7	95.2	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.6	95.6	95.6
>=1500	24.4	91.7	94.5	96.3	96.8	96.8	97.0	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
>=1200	24.6	92.2	95.1	96.9	97.4	97.4	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.9	97.9	97.9
>=1000	24.7	92.8	95.7	97.6	98.2	98.2	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7
>=900	24.7	92.9	95.9	97.8	98.3	98.4	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9
>=800	24.7	93.2	96.1	98.2	98.7	98.8	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.3	99.3	99.3
>=700	24.7	93.3	96.3	98.4	98.9	99.0	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5
>=600	24.7	93.4	96.4	98.5	99.0	99.1	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6
>=500	24.7	93.4	96.4	98.5	99.1	99.2	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8
>=400	24.7	93.4	96.4	98.5	99.1	99.2	99.4	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.8
>=300	24.7	93.4	96.4	98.5	99.1	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8
>=200	24.7	93.4	96.4	98.5	99.1	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9
>=100	24.7	93.4	96.4	98.5	99.1	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.9
>= 0	24.7	93.4	96.4	98.5	99.1	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.8	100.0

TOTAL NO. OF OBS : 6541



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56							
N	1.2	2.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.2				
NNE	.9	1.9	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.6				
NE	.4	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.2				
ENE	2.5	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	3.5				
E	8.3	5.2	2.9	1.3	.1	.0	.0	.0	.0	.0	.0	.0	17.9	4.8				
ESE	1.1	3.5	3.3	3.3	.6	.2	.0	.0	.0	.0	.0	.0	12.1	9.0				
SE	1.2	1.2	2.8	1.1	.1	.0	.0	.0	.0	.0	.0	.0	6.5	7.6				
SSE	.4	1.5	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	4.4	8.0				
S	1.1	1.6	.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	4.4	6.4				
SSW	.3	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.4				
SW	.4	1.0	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.6				
WSW	.6	.7	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	2.6	7.3				
W	.7	2.0	1.6	.9	.1	.1	.0	.0	.0	.0	.0	.0	5.4	7.6				
WNW	.4	1.6	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.9				
NW	1.8	2.0	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	6.4	5.8				
NNW	1.7	2.2	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.6				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
ALL	23.1	30.2	22.0	11.2	1.5	.4	.0	.0	.0	.0	.0	.0	100.0	5.7				

TOTAL NO. OF OBS : 896

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					28-33	34-40	41-47	48-55	>=56	TOTAL	%	MEAN
DIR.																							SPEED
N		1.6			3.9			1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2		5.2
NNE		2.2			3.8			1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8		5.1
NE		3.2			2.6			1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2		4.5
ENE		3.0			3.2			.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7		3.9
E		7.2			8.5			2.3	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.8		5.0
ESE		1.6			2.4			2.2	1.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4		8.0
SE		.7			.7			1.0	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6		9.9
SSE		.1			.6			1.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9		8.8
S		.8			.8			.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6		6.7
SSW		.1			.7			.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8		8.8
SW		.4			1.2			.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6		5.8
WSW		.4			.6			.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4		7.7
W		.4			.9			.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0		8.2
WNW		1.0			.3			1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6		6.0
NW		1.4			1.7			1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0		5.7
NNW		1.2			2.4			.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8		5.2
VAR		.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CLM		.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7		.0
ALL		25.5			34.2			18.2	9.6	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		5.3

TOTAL NO. OF OBS : 898

NOTES :  
 # = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL	MEAN
DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%		
N	2.3			3.2			.8	.1		.0		.0		.0		.0	6.5	4.7	
NNE	2.7			3.9			3.1	.2		.0		.0		.0		.0	9.9	5.2	
NE	3.6			3.8			1.3	.0		.1		.0		.0		.0	8.8	4.4	
ENE	4.5			5.2			.4	.1		.0		.0		.0		.0	10.2	3.8	
E	8.6			8.5			2.0	.8		.1		.0		.0		.0	19.9	4.4	
ESE	2.1			2.3			1.4	1.8		.3		.1		.0		.0	8.1	7.7	
SE	.3			1.6			1.7	1.3		.2		.0		.0		.0	5.1	8.5	
SSE	.2			.6			.4	.8		.0		.0		.0		.0	2.0	8.6	
S	.1			1.0			.9	.4		.1		.0		.0		.0	2.6	8.4	
SSW	.2			.8			.3	.3		.0		.0		.0		.0	1.7	6.9	
SW	.1			.4			.7	.2		.0		.0		.0		.0	1.4	7.7	
WSW	.1			.4			.8	.2		.0		.0		.0		.0	1.6	7.7	
W	.7			.9			1.0	.6		.1		.1		.0		.0	3.3	7.8	
WNW	.7			.7			.7	.3		.1		.0		.0		.0	2.4	7.1	
NW	.9			1.1			1.0	.2		.0		.0		.0		.0	3.2	5.8	
NNW	.8			1.9			1.0	.2		.0		.0		.0		.0	3.9	5.7	
VAR	.0			.0			.0	.0		.0		.0		.0		.0	.0	.0	
CLM	.0			.0			.0	.0		.0		.0		.0		.0	9.2	.0	
ALL	27.8			36.3			17.6	7.7		1.1		.2		.0		.0	100.0	5.1	

TOTAL NO. OF OBS : 898

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : CCY  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL		MEAN	
DIR.		1		1		1		1		1	22-27	28-33	34-40	41-47	48-55	>=56	%		SPEED
N		1.1		2.4		2.3		.9		.0	.0	.0	.0	.0	.0	.0	6.8		6.7
NNE		1.0		2.8		2.1		.8		.1	.0	.0	.0	.0	.0	.0	6.8		6.6
NE		2.0		4.7		3.3		1.0		.1	.0	.0	.0	.0	.0	.0	11.1		6.2
ENE		2.6		4.7		3.2		.0		.1	.0	.0	.0	.0	.0	.0	10.6		5.4
E		3.6		4.7		3.6		.6		.4	.0	.0	.0	.0	.0	.0	12.8		5.9
ESE		1.0		1.9		3.3		3.1		.9	.1	.0	.0	.0	.0	.0	10.4		10.1
SE		.4		2.4		2.4		2.0		.6	.0	.0	.0	.0	.0	.0	7.9		8.9
SSE		.7		1.2		1.7		.7		.2	.0	.0	.0	.0	.0	.0	4.5		7.6
S		1.0		1.1		1.1		.9		.3	.0	.0	.0	.0	.0	.0	4.5		8.0
SSW		.4		.4		.3		.4		.0	.0	.0	.0	.0	.0	.0	1.7		7.3
SW		.2		.7		1.0		.4		.2	.0	.0	.0	.0	.0	.0	2.6		8.9
WSW		.0		.6		.7		.2		.0	.0	.0	.0	.0	.0	.0	1.4		7.8
W		.7		1.3		1.2		1.1		.2	.0	.0	.0	.0	.0	.0	4.6		8.5
WNW		.1		.9		1.2		.7		.0	.0	.0	.0	.0	.0	.0	2.9		8.5
NW		.2		.7		1.3		.9		.0	.0	.0	.0	.0	.0	.0	3.1		8.4
NNW		.3		2.1		1.3		.8		.0	.0	.0	.0	.0	.0	.0	4.6		7.1
VAR		.0		.0		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0		.0
CLM		.0		.0		.0		.0		.0	.0	.0	.0	.0	.0	.0	3.9		.0
ALL		15.4		32.6		30.3		14.5		3.2	.1	.0	.0	.0	.0	.0	100.0		7.0

TOTAL NO. OF OBS : 898

NOTES : \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)												TOTAL	MEAN	
16 PT.	DIR.	1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED
N		.7		.8		1.5	.4	.0	.0	.0	.0	.0	.0	.0	3.4	7.2
NNE		.2	1.1			1.6	1.6	.1	.0	.0	.0	.0	.0	.0	4.6	9.2
NE		.6	1.2			1.2	.3	.1	.0	.0	.0	.0	.0	.0	3.5	7.2
ENE		.6	1.2			.6	.2	.1	.0	.0	.0	.0	.0	.0	2.7	6.4
E		.4	2.2			1.3	2.0	.4	.0	.0	.0	.0	.0	.0	6.5	9.2
ESE		.0	.7			2.3	3.9	1.7	.0	.0	.0	.0	.0	.0	8.6	12.6
SE		.0	1.1			2.8	4.3	.9	.1	.0	.0	.0	.0	.0	9.2	12.0
SSE		.1	1.3			2.6	1.8	.1	.0	.0	.0	.0	.0	.0	5.9	9.4
S		.6	4.6			4.5	2.7	.3	.0	.0	.0	.0	.0	.0	12.6	8.1
SSW		.1	2.8			2.6	.8	.2	.1	.0	.0	.0	.0	.0	6.6	8.0
SW		.3	1.9			1.5	1.6	.0	.0	.0	.0	.0	.0	.0	5.3	8.4
WSW		.3	2.6			1.6	.9	.1	.0	.0	.0	.0	.0	.0	5.5	7.1
W		1.6	3.5			5.1	2.8	.1	.0	.0	.0	.0	.0	.0	13.1	7.9
WNW		.2	.9			1.6	2.5	.1	.0	.0	.0	.0	.0	.0	5.3	9.8
NW		.1	.9			1.5	.3	.1	.0	.0	.0	.0	.0	.0	2.9	8.2
NNW		.2	1.0			.9	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.3
VAR		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0
ALL		6.0	27.9			33.0	26.1	4.5	.2	.0	.0	.0	.0	.0	100.0	8.7

TOTAL NO. OF OBS : 894

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%		WIND	SPEED			
N		.2		.8		.9	.3	.1	.0	.0	.0	.0	.0	.0	2.3		8.3				
NNE		.0		.3		1.5	.6	.1	.0	.0	.0	.0	.0	.0	2.5		10.0				
NE		.1		.6		.7	.2	.1	.0	.0	.0	.0	.0	.0	1.7		8.5				
ENE		.0		.6		.3	.0	.0	.0	.0	.0	.0	.0	.0	.9		6.4				
E		.1		.3		.2	.7	.3	.0	.0	.0	.0	.0	.0	1.7		11.5				
ESE		.1		.3		1.1	3.6	1.0	.1	.0	.0	.0	.0	.0	6.3		13.5				
SE		.0		.1		2.2	4.0	1.3	.0	.0	.0	.0	.0	.0	7.7		12.9				
SSE		.0		.4		3.4	2.8	.0	.0	.0	.0	.0	.0	.0	6.6		10.2				
S		.3		2.8		5.0	1.9	.0	.1	.0	.0	.0	.0	.0	10.2		8.4				
SSW		.1		1.8		3.5	1.1	.0	.0	.0	.0	.0	.0	.0	6.5		8.3				
SW		.3		1.9		3.5	.9	.2	.0	.0	.0	.0	.0	.0	6.8		8.2				
WSW		.3		3.4		3.9	1.9	.4	.0	.0	.0	.0	.0	.0	9.9		8.6				
W		.6		5.8		10.9	6.6	.4	.0	.0	.0	.0	.0	.0	24.4		8.9				
WNW		.1		1.2		5.0	1.7	.1	.0	.0	.0	.0	.0	.0	8.2		8.8				
NW		.0		.7		1.3	.9	.0	.0	.0	.0	.0	.0	.0	2.9		9.5				
NNW		.0		.3		.2	.2	.0	.0	.0	.0	.0	.0	.0	.8		8.3				
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0				
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.8		.0				
ALL		2.3	21.3	43.7	27.4	4.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0		9.4				

TOTAL NO. OF OBS : 895

NOTES :  
 \* - PERCENT < .05

# 1 - SURFACE WINDS

13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1 - 3	4 - 6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL %	MEAN WIND SPEED
						22-27	28-33	34-40	41-47	48-55		
N	.0	1.0	.7	.1	.0	.0	.0	.0	.0	.0	1.8	6.5
NNE	.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	1.6	6.1
NE	.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.8	6.3
NENE	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.3
E	.4	.6	.9	.8	.0	.0	.0	.0	.0	.0	2.7	8.2
ESE	.7	.8	4.6	3.7	.3	.0	.0	.0	.0	.0	9.7	10.4
SE	.2	2.1	3.6	3.7	.3	.1	.0	.0	.0	.0	10.0	9.9
SSE	.3	1.1	2.4	.9	.0	.0	.0	.0	.0	.0	4.8	8.1
S	1.1	1.7	2.1	1.0	.0	.0	.0	.0	.0	.0	5.9	7.1
SSW	.2	1.6	.9	.6	.1	.0	.0	.0	.0	.0	3.3	7.4
SW	.7	2.3	1.9	.9	.0	.1	.0	.0	.0	.0	5.9	7.3
WSW	.7	3.2	2.9	1.6	.1	.0	.0	.0	.0	.0	8.5	7.4
W	7.7	10.6	7.1	2.3	.2	.0	.0	.0	.0	.0	22.6	6.8
WNW	1.6	5.0	3.6	.9	.0	.0	.0	.0	.0	.0	11.2	6.4
NW	1.1	2.4	.8	.3	.0	.0	.0	.0	.0	.0	4.7	5.5
NNW	.7	1.6	.2	.1	.0	.0	.0	.0	.0	.0	2.6	5.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0
ALL	10.4	35.5	32.6	16.8	.1	.2	.0	.0	.0	.0	100.0	7.3

TOTAL NO. OF OBS : 898

NOTES : \* : PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)												TOTAL %	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			
N	1.6	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.6	4.2	
NNE	.8	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.1	4.6	
NE	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.8	
NNE	.9	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.7	
E	2.6	2.2	1.7	.9	.0	.0	.0	.0	.0	.0	.0	7.7	5.6	
ESE	1.3	4.0	4.3	2.7	.4	.0	.0	.0	.0	.0	.0	12.8	8.1	
SE	1.0	2.6	3.7	3.3	.4	.0	.0	.0	.0	.0	.0	11.0	9.0	
SSE	.6	1.6	.9	.1	.0	.0	.0	.0	.0	.0	.0	3.5	5.4	
S	1.4	1.4	1.1	.2	.0	.0	.0	.0	.0	.0	.0	4.2	5.5	
SSW	.3	1.2	1.1	.3	.1	.0	.0	.0	.0	.0	.0	3.1	7.1	
SW	.6	1.1	.7	.4	.1	.0	.0	.0	.0	.0	.0	3.2	6.6	
WSW	1.3	1.8	1.9	.7	.1	.0	.0	.0	.0	.0	.0	5.8	6.8	
W	2.4	4.1	3.6	1.8	.1	.0	.0	.0	.0	.0	.0	12.0	6.7	
WNW	1.3	4.5	1.3	.6	.1	.0	.0	.0	.0	.0	.0	7.8	5.6	
NW	1.6	2.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	5.0	5.1	
NNW	2.0	1.6	.8	.4	.1	.0	.0	.0	.0	.0	.0	4.9	5.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0	
ALL	21.4	32.5	22.6	12.1	1.6	.0	.0	.0	.0	.0	.0	100.0	5.9	

TOTAL NO. OF OBS : 898

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

G13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL	MEAN
	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED			
DIR.																		
N	1.1		2.0		1.2	.3	.0*	.0	.0	.0	.0	.0	.0	4.5	5.7			
NNE	1.0		1.9		1.5	.4	.0*	.0	.0	.0	.0	.0	.0	4.9	6.2			
NE	1.3		1.9		1.0	.2	.1	.0	.0	.0	.0	.0	.0	4.5	5.5			
ENE	1.8		2.3		.7	.1	.0*	.0	.0	.0	.0	.0	.0	4.8	4.5			
E	3.9		4.0		1.9	1.1	.2	.0	.0	.0	.0	.0	.0	11.1	5.5			
ESE	.9		2.0		2.8	3.0	.7	.1	.0	.0	.0	.0	.0	9.5	9.7			
SE	.5		1.5		2.5	2.7	.5	.0*	.0	.0	.0	.0	.0	7.7	9.9			
SSE	.2		1.0		1.8	1.0	.1	.0*	.0	.0	.0	.0	.0	4.3	8.5			
S	.8		1.9		2.0	1.1	.1	.0*	.0	.0	.0	.0	.0	5.9	7.6			
SSW	.2		1.3		1.2	.5	.1	.0*	.0	.0	.0	.0	.0	3.3	7.8			
SW	.4		1.3		1.3	.7	.1	.0*	.0	.0	.0	.0	.0	3.8	7.7			
WSW	.5		1.6		1.7	.8	.1	.0	.0	.0	.0	.0	.0	4.7	7.6			
W	1.2		3.6		3.9	2.1	.2	.0*	.0	.0	.0	.0	.0	11.0	7.8			
WNW	.7		1.9		1.9	.9	.1	.0	.0	.0	.0	.0	.0	5.5	7.3			
NW	.9		1.4		1.2	.5	.0*	.0	.0	.0	.0	.0	.0	4.2	6.4			
NNW	.9		1.6		.8	.4	.0*	.0	.0	.0	.0	.0	.0	3.7	5.8			
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0			
ALL	16.5		31.3		27.5	15.7	2.4	.2	.0	.0	.0	.0	.0	100.0	6.8			

TOTAL NO. OF OBS : 7175

NOTES : \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	18.2	73.5	75.1	75.6	75.6	75.7	76.0	76.1	76.1	76.1	76.3	76.3	76.3	76.3	76.5	76.5
>=20000	18.2	76.1	77.7	78.2	78.2	78.4	78.6	78.7	78.7	78.7	78.9	78.9	78.9	78.9	79.2	79.2
>=18000	18.2	76.5	78.1	78.8	78.8	78.9	79.2	79.3	79.3	79.3	79.5	79.5	79.5	79.5	79.7	79.7
>=16000	18.2	76.5	78.1	78.8	78.8	78.9	79.2	79.3	79.3	79.3	79.5	79.5	79.5	79.5	79.7	79.7
>=14000	18.2	76.5	78.1	78.8	78.8	78.9	79.2	79.3	79.3	79.3	79.5	79.5	79.5	79.5	79.7	79.7
>=12000	18.2	77.0	78.6	79.3	79.3	79.4	79.6	79.7	79.7	79.7	80.0	80.0	80.0	80.2	80.2	80.2
>=10000	18.3	78.4	80.0	80.6	80.6	80.8	81.0	81.1	81.1	81.1	81.3	81.3	81.3	81.5	81.5	81.5
>=9000	18.3	79.5	81.1	81.8	81.8	81.9	82.1	82.2	82.2	82.2	82.5	82.5	82.5	82.7	82.7	82.7
>=8000	18.7	83.3	85.0	85.8	85.8	85.9	86.1	86.2	86.2	86.2	86.4	86.4	86.4	86.7	86.7	86.7
>=7000	18.9	85.3	87.0	87.8	87.8	87.9	88.2	88.3	88.3	88.3	88.5	88.5	88.5	88.7	88.7	88.7
>=6000	18.9	85.8	87.6	88.4	88.4	88.5	88.7	88.8	88.8	88.8	89.1	89.1	89.1	89.3	89.3	89.3
>=5000	19.2	86.6	88.4	89.2	89.2	89.3	89.5	89.6	89.6	89.6	89.9	89.9	89.9	90.1	90.1	90.1
>=4500	19.5	87.2	89.1	89.9	89.9	90.0	90.2	90.3	90.3	90.3	90.5	90.5	90.5	90.8	90.8	90.8
>=4000	19.6	88.3	90.1	90.9	90.9	91.0	91.3	91.5	91.5	91.5	91.7	91.7	91.7	91.9	91.9	91.9
>=3500	19.6	88.4	90.2	91.0	91.0	91.1	91.5	91.6	91.6	91.6	91.8	91.8	91.8	92.0	92.0	92.0
>=3000	19.6	89.1	90.9	91.7	91.7	91.8	92.1	92.3	92.3	92.3	92.5	92.5	92.5	92.7	92.7	92.7
>=2500	19.9	90.4	92.6	93.4	93.4	93.5	93.8	94.0	94.0	94.0	94.2	94.2	94.2	94.4	94.4	94.4
>=2000	20.3	92.0	94.5	95.3	95.3	95.4	95.8	95.9	95.9	95.9	96.2	96.2	96.2	96.5	96.5	96.5
>=1800	20.5	92.4	94.9	95.7	95.7	95.8	96.1	96.2	96.2	96.2	96.6	96.6	96.6	96.8	96.8	96.8
>=1500	20.5	92.9	95.4	96.2	96.2	96.4	96.7	96.8	96.8	96.8	97.2	97.2	97.2	97.4	97.4	97.4
>=1200	20.5	93.3	95.9	96.7	96.7	96.8	97.2	97.3	97.3	97.3	97.6	97.6	97.6	97.8	97.8	97.8
>=1000	20.5	93.8	96.6	97.4	97.4	97.5	97.8	97.9	97.9	97.9	98.3	98.3	98.3	98.5	98.5	98.5
>=900	20.5	94.0	96.7	97.5	97.5	97.6	98.1	98.2	98.2	98.2	98.5	98.5	98.5	98.7	98.7	98.7
>=800	20.5	94.3	97.0	97.8	97.8	98.1	98.5	98.6	98.6	98.6	99.0	99.0	99.0	99.2	99.2	99.2
>=700	20.5	94.3	97.2	97.9	97.9	98.2	98.6	98.7	98.7	98.7	99.1	99.1	99.1	99.4	99.4	99.4
>=600	20.5	94.3	97.2	97.9	97.9	98.3	98.7	98.8	98.8	98.8	99.2	99.2	99.2	99.4	99.4	99.4
>=500	20.5	94.3	97.2	97.9	97.9	98.3	98.7	98.9	98.9	98.9	99.3	99.3	99.3	99.5	99.5	99.5
>=400	20.5	94.3	97.2	97.9	97.9	98.3	98.7	98.9	98.9	98.9	99.3	99.3	99.3	99.5	99.5	99.5
>=300	20.5	94.3	97.2	97.9	97.9	98.3	98.7	98.9	98.9	98.9	99.3	99.3	99.3	99.5	99.5	99.5
>=200	20.5	94.4	97.3	98.1	98.1	98.4	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.8	99.8	99.8
>=100	20.5	94.4	97.3	98.1	98.1	98.5	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.9	99.9	99.9
>=0	20.5	94.4	97.3	98.1	98.1	98.5	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.9	99.9	100.0

TOTAL NO. OF OBS : 878

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.6	71.4	73.7	74.2	74.4	74.4	74.6	74.8	74.8	75.1	75.1	75.1	75.1	75.1	75.3	75.3	75.3	75.4
>=20000	16.6	73.6	76.0	76.4	76.6	76.6	76.9	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.5	77.5	77.5	77.7
>=18000	16.6	73.9	76.3	76.7	77.0	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.9	77.9	77.9	78.0
>=16000	16.6	73.9	76.3	76.7	77.0	77.0	77.2	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.9	77.9	77.9	78.0
>=14000	16.7	74.0	76.4	76.9	77.1	77.1	77.3	77.5	77.5	77.8	77.8	77.8	77.8	77.8	78.0	78.0	78.0	78.1
>=12000	16.8	74.5	76.9	77.3	77.5	77.5	77.8	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.4	78.4	78.4	78.6
>=10000	17.2	75.4	77.9	78.3	78.6	78.6	78.8	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.5	79.5	79.5	79.6
>=9000	17.2	76.1	78.6	79.0	79.2	79.2	79.5	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.2	80.2	80.2	80.4
>=8000	17.3	79.2	81.8	82.3	82.5	82.5	82.7	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.5	83.5	83.5	83.6
>=7000	17.5	81.0	83.6	84.1	84.3	84.3	84.5	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.3	85.3	85.3	85.4
>=6000	17.7	82.1	84.7	85.1	85.3	85.3	85.6	85.9	85.9	86.1	86.1	86.1	86.1	86.1	86.3	86.3	86.3	86.5
>=5000	17.7	82.6	85.2	85.7	86.0	86.0	86.2	86.6	86.6	86.8	86.8	86.8	86.8	86.8	87.0	87.0	87.0	87.1
>=4500	17.7	83.2	85.8	86.2	86.6	86.6	86.8	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.7
>=4000	17.9	84.4	87.1	87.6	87.9	87.9	88.1	88.5	88.5	88.7	88.7	88.7	88.7	88.7	88.9	88.9	88.9	89.1
>=3500	18.2	85.1	87.8	88.3	88.6	88.6	88.8	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.6	89.6	89.6	89.7
>=3000	18.4	86.6	89.3	89.7	90.1	90.1	90.3	90.6	90.7	91.0	91.0	91.0	91.0	91.0	91.2	91.2	91.2	91.3
>=2500	18.7	88.3	91.0	91.4	91.8	91.8	92.0	92.3	92.4	92.7	92.7	92.7	92.7	92.7	92.9	92.9	92.9	93.0
>=2000	19.2	90.3	93.2	93.8	94.1	94.1	94.4	94.7	94.8	95.0	95.0	95.0	95.0	95.0	95.3	95.3	95.3	95.4
>=1800	19.3	90.9	93.8	94.6	94.9	94.9	95.1	95.5	95.6	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.0	96.2
>=1500	19.4	91.5	94.5	95.3	95.6	95.6	95.8	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	97.0
>=1200	19.4	92.2	95.3	96.2	96.5	96.5	96.7	97.1	97.2	97.5	97.5	97.5	97.5	97.5	97.7	97.7	97.7	97.9
>=1000	19.5	92.9	95.9	97.0	97.3	97.3	97.5	97.9	98.0	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.6
>=900	19.5	92.9	95.9	97.0	97.3	97.3	97.5	97.9	98.0	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.6
>=800	19.5	93.1	96.2	97.3	97.7	97.7	98.1	98.4	98.5	98.9	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.2
>=700	19.5	93.5	96.5	97.6	98.1	98.1	98.4	98.8	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5
>=600	19.5	93.6	96.6	97.7	98.2	98.2	98.5	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.7
>=500	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.8
>=400	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.8
>=300	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.8
>=200	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.8
>=100	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	99.8
>=0	19.5	93.6	96.6	97.9	98.3	98.3	98.6	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.7	99.7	99.7	100.0

TOTAL NO. OF OBS : 886

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2
UNLIMIT	15.4	65.8	67.8	68.3	68.4	68.6	68.9	68.9	68.9	68.9	68.9	68.9	69.2	69.4	69.4	69.4
>=20000	15.4	68.3	70.3	70.9	71.0	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.8	72.0	72.0	72.0
>=18000	15.4	68.5	70.5	71.2	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	72.1	72.4	72.4	72.4
>=16000	15.4	68.5	70.5	71.2	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	72.1	72.4	72.4	72.4
>=14000	15.4	68.5	70.5	71.2	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9	72.1	72.4	72.4	72.4
>=12000	15.5	68.9	71.1	71.8	71.9	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.7	72.9	72.9	72.9
>=10000	15.7	70.8	72.9	73.6	73.7	73.9	74.4	74.4	74.4	74.4	74.4	74.4	74.6	74.9	74.9	74.9
>=9000	15.7	71.7	73.9	74.6	74.7	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.7	75.9	75.9	75.9
>=8000	15.9	74.9	77.1	77.9	78.0	78.3	78.7	78.7	78.7	78.7	78.7	78.7	79.0	79.2	79.2	79.2
>=7000	16.3	76.9	79.3	80.1	80.2	80.4	80.9	80.9	80.9	80.9	80.9	80.9	81.1	81.3	81.3	81.3
>=6000	16.4	77.5	80.0	80.8	80.9	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.8	82.0	82.0	82.0
>=5000	16.7	78.5	81.0	81.8	81.9	82.1	82.6	82.6	82.6	82.6	82.6	82.6	82.8	83.0	83.0	83.0
>=4500	16.7	79.0	81.5	82.3	82.4	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.3	83.5	83.5	83.5
>=4000	17.0	80.1	82.6	83.4	83.6	83.8	84.3	84.3	84.3	84.3	84.3	84.3	84.5	84.8	84.8	84.8
>=3500	17.0	80.5	83.0	83.8	84.1	84.3	84.8	84.8	84.8	84.8	84.8	84.8	85.0	85.2	85.2	85.2
>=3000	17.4	82.7	85.4	86.2	86.5	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.4	87.6	87.6	87.6
>=2500	17.7	84.8	87.6	88.6	88.9	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.8	90.0	90.0	90.0
>=2000	18.5	87.7	90.6	91.7	91.9	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.8	93.1	93.1	93.1
>=1800	18.7	87.8	90.7	91.9	92.2	92.4	92.8	92.8	92.8	92.8	92.8	92.8	93.1	93.3	93.3	93.3
>=1500	18.9	89.1	91.9	93.3	93.5	93.7	94.2	94.2	94.2	94.2	94.2	94.2	94.5	94.8	94.8	94.8
>=1200	18.9	89.6	92.7	94.1	94.3	94.8	95.2	95.2	95.2	95.2	95.2	95.2	95.6	95.8	95.8	95.8
>=1000	19.0	90.1	93.4	94.9	95.1	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.5	96.7	96.7	96.7
>=900	19.0	90.1	93.4	94.9	95.1	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.5	96.7	96.7	96.7
>=800	19.1	90.3	94.0	95.4	95.7	96.1	96.8	96.8	96.8	96.8	96.8	96.8	97.4	97.6	97.6	97.6
>=700	19.1	90.6	94.2	95.7	95.9	96.4	97.0	97.0	97.0	97.0	97.0	97.0	97.6	97.8	97.8	97.8
>=600	19.1	90.6	94.3	95.8	96.1	96.6	97.3	97.3	97.3	97.3	97.3	97.3	97.8	98.1	98.1	98.1
>=500	19.1	90.7	94.5	96.0	96.4	96.8	97.5	97.5	97.5	97.5	97.5	97.5	98.1	98.3	98.3	98.3
>=400	19.1	90.8	94.7	96.1	96.5	96.9	97.6	97.6	97.6	97.6	97.6	97.6	98.2	98.4	98.4	98.4
>=300	19.1	90.8	94.7	96.1	96.5	96.9	97.6	97.6	97.6	97.6	97.6	97.6	98.2	98.4	98.4	98.4
>=200	19.1	90.8	94.7	96.1	96.5	96.9	97.7	97.7	97.7	97.7	97.7	97.7	98.3	98.5	98.5	98.5
>=100	19.1	90.8	94.7	96.1	96.5	96.9	97.7	97.7	97.7	97.7	97.7	97.7	98.3	98.5	98.5	98.5
>= 0	19.1	90.8	94.7	96.1	96.5	96.9	97.7	97.7	97.7	97.7	97.7	97.7	98.3	98.5	98.5	98.5

TOTAL NO. OF OBS : 879

## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	22.3	60.5	62.2	62.8	63.0	63.0	63.0	63.0	63.0	63.3	63.3	63.3	63.3	63.4	63.4	63.5
>=20000	22.5	65.0	66.7	67.5	67.7	67.7	67.7	67.7	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.2
>=18000	22.5	66.2	68.0	68.9	69.1	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.5	69.5	69.6
>=16000	22.5	66.4	68.1	69.0	69.2	69.2	69.2	69.2	69.5	69.5	69.5	69.5	69.5	69.6	69.6	69.7
>=14000	22.7	66.7	68.4	69.3	69.6	69.6	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.9	69.9	70.0
>=12000	22.8	67.0	68.8	69.7	69.9	69.9	69.9	69.9	70.1	70.1	70.1	70.1	70.1	70.3	70.3	70.4
>=10000	23.5	69.8	71.5	72.4	72.8	72.8	72.8	72.8	73.0	73.0	73.0	73.0	73.0	73.1	73.1	73.2
>=9000	23.9	70.8	72.7	73.7	74.1	74.2	74.2	74.2	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.6
>=8000	24.8	74.5	76.6	77.8	78.3	78.3	78.3	78.3	78.5	78.5	78.5	78.5	78.5	78.6	78.6	78.8
>=7000	25.3	76.6	78.6	80.0	80.4	80.5	80.5	80.5	80.7	80.7	80.7	80.7	80.7	80.8	80.8	80.9
>=6000	25.4	77.2	79.2	80.6	81.1	81.1	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.5
>=5000	25.6	78.1	80.3	81.6	82.0	82.1	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.5
>=4500	25.6	78.3	80.5	81.9	82.2	82.3	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.7	82.7	82.8
>=4000	25.9	79.9	82.1	83.5	83.9	84.0	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.5
>=3500	26.3	80.7	82.9	84.3	84.7	84.8	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.3
>=3000	26.8	82.8	85.1	86.6	87.0	87.1	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.6
>=2500	27.1	84.6	87.0	88.5	89.0	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.6
>=2000	27.1	87.1	89.8	91.5	92.0	92.1	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.5
>=1800	27.1	87.5	90.1	92.0	92.4	92.5	92.5	92.5	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.0
>=1500	27.6	89.4	92.2	94.0	94.7	94.8	94.8	94.8	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.3
>=1200	27.7	90.5	93.3	95.3	96.0	96.1	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.6
>=1000	27.8	90.9	93.9	96.1	96.8	96.9	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.5
>=900	27.9	91.0	94.0	96.2	96.9	97.0	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.6
>=800	27.9	91.0	94.1	96.4	97.1	97.4	97.6	97.6	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.2
>=700	27.9	91.0	94.3	96.6	97.2	97.6	97.8	97.8	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.5
>=600	27.9	91.2	94.4	96.7	97.4	97.7	97.9	97.9	98.3	98.3	98.5	98.5	98.5	98.6	98.6	98.7
>=500	27.9	91.3	94.5	96.8	97.6	97.9	98.3	98.3	98.6	98.6	98.9	98.9	98.9	99.0	99.0	99.2
>=400	27.9	91.3	94.6	96.9	97.7	98.0	98.4	98.4	98.5	98.9	99.1	99.1	99.1	99.3	99.3	99.5
>=300	27.9	91.3	94.6	96.9	97.7	98.0	98.4	98.4	98.5	99.0	99.2	99.2	99.2	99.4	99.4	99.7
>=200	27.9	91.3	94.6	96.9	97.7	98.0	98.4	98.4	98.5	99.0	99.2	99.2	99.2	99.5	99.5	99.8
>=100	27.9	91.3	94.6	96.9	97.7	98.0	98.4	98.4	98.5	99.0	99.2	99.2	99.2	99.7	99.7	99.9
>=0	27.9	91.3	94.6	96.9	97.7	98.0	98.4	98.4	98.5	99.0	99.2	99.2	99.2	99.7	99.7	100.0

TOTAL NO. OF OBS : 871

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	26.2	64.0	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
>=20000	26.5	69.4	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
>=18000	26.6	70.6	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>=16000	26.6	70.6	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>=14000	26.6	70.9	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>=12000	27.1	71.7	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
>=10000	28.0	74.7	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
>=9000	28.6	76.2	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
>=8000	30.5	80.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
>=7000	30.8	82.4	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
>=6000	31.0	82.9	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
>=5000	31.3	84.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
>=4500	31.3	84.3	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
>=4000	31.6	85.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
>=3500	31.6	85.7	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>=3000	32.3	88.4	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
>=2500	32.9	90.8	92.0	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=2000	33.5	92.9	94.1	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9
>=1800	33.5	93.3	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2
>=1500	33.6	94.5	96.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
>=1200	33.8	95.1	96.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9
>=1000	34.0	95.7	97.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7
>=900	34.0	95.7	97.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7
>=800	34.0	96.0	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0
>=700	34.0	96.0	98.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
>=600	34.0	96.0	98.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
>=500	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=400	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=300	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=200	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=100	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
>=0	34.0	96.0	98.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 860

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	3/4	>=5/8	1/2	>=5/16	1/4	>=0
UNLIMIT	28.1	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
>=20000	28.7	71.5	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
>=18000	28.7	72.0	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
>=16000	28.7	72.2	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
>=14000	28.9	72.4	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
>=12000	29.5	74.1	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
>=10000	30.0	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
>= 9000	30.1	77.3	77.4	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>= 8000	31.5	81.8	81.9	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
>= 7000	32.1	84.7	85.0	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
>= 6000	32.6	85.7	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>= 5000	33.1	86.8	87.1	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
>= 4500	33.3	87.0	87.3	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>= 4000	33.6	87.9	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 3500	34.1	89.0	89.4	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
>= 3000	34.4	91.1	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 2500	34.6	92.4	93.3	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
>= 2000	34.9	93.6	94.5	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>= 1800	35.0	93.8	94.7	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 1500	35.2	94.9	95.9	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 1200	35.6	95.9	96.8	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>= 1000	35.6	96.7	97.7	98.2	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 900	35.7	96.8	97.8	98.3	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
>= 800	35.7	97.1	98.4	98.8	99.3	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 700	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 600	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 500	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 400	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 300	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 200	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 100	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 0	35.7	97.2	98.5	99.0	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 869

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	24.5	66.6	67.3	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
>=20000	24.9	72.0	72.9	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>=18000	24.9	73.4	74.3	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>=16000	24.9	73.4	74.3	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>=14000	25.0	73.9	74.8	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
>=12000	25.3	75.0	76.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
>=10000	26.1	76.8	77.7	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>=9000	26.4	78.8	79.8	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
>=8000	27.1	82.4	83.6	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
>=7000	27.6	85.1	86.2	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
>=6000	27.9	85.4	86.7	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
>=5000	28.0	86.2	87.5	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
>=4500	28.0	86.4	87.9	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
>=4000	28.4	87.9	89.4	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
>=3500	28.8	88.6	90.1	90.6	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>=3000	29.0	90.2	91.8	92.4	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=2500	29.1	91.7	93.5	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
>=2000	29.4	93.4	95.4	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>=1800	29.5	93.9	95.8	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>=1500	29.6	94.2	96.5	97.2	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>=1200	29.6	94.5	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>=1000	29.6	94.7	97.1	97.9	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>=900	29.7	94.8	97.3	98.2	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>=800	29.7	94.9	97.6	98.5	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=700	29.7	94.9	97.6	98.5	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=600	29.7	95.0	97.8	98.7	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=500	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=400	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=300	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=200	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=100	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=0	29.7	95.1	97.9	98.8	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 865



013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	>=10	>=6	>=5	>=4	VISIBILITY (STATUTE MILES)										>=1/4	>=1/2	>=5/8	>=3/4	>=1	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	17.9	72.1	72.9	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
>=20000	17.9	74.9	76.0	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
>=18000	17.9	76.0	77.1	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
>=16000	17.9	76.0	77.1	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
>=14000	18.0	76.1	77.2	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
>=12000	18.3	76.8	78.0	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
>=10000	18.6	76.9	80.3	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
>= 9000	18.6	79.8	81.3	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
>= 8000	19.0	82.4	83.9	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
>= 7000	19.6	84.7	86.2	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>= 6000	19.6	85.5	87.0	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>= 5000	19.7	86.1	87.5	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
>= 4500	20.0	86.4	87.9	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
>= 4000	20.1	88.0	89.5	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
>= 3500	20.1	88.3	89.8	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>= 3000	20.1	89.7	91.3	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 2500	20.4	91.4	93.1	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
>= 2000	20.5	93.1	94.9	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
>= 1800	20.5	93.7	95.5	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
>= 1500	20.6	94.3	96.4	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>= 1200	20.6	94.8	96.9	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 1000	20.7	95.4	97.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 900	20.7	95.4	97.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 800	20.7	95.6	98.0	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 700	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 600	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 500	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 400	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 300	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 100	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 0	20.7	95.8	98.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 882

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1
UNLIMIT	21.1	67.7	68.9	69.3	69.4	69.5	69.6	69.6	69.6	69.7
>=20000	21.3	71.4	72.7	73.2	73.3	73.3	73.4	73.5	73.5	73.6
>=18000	21.3	72.2	73.5	74.1	74.2	74.2	74.3	74.3	74.3	74.5
>=16000	21.3	72.2	73.5	74.1	74.2	74.2	74.3	74.4	74.4	74.5
>=14000	21.4	72.4	73.7	74.3	74.4	74.4	74.5	74.6	74.6	74.7
>=12000	21.6	73.1	74.5	75.1	75.2	75.2	75.3	75.4	75.4	75.5
>=10000	22.1	75.1	76.5	77.1	77.2	77.2	77.3	77.4	77.4	77.5
>=9000	22.3	76.3	77.7	78.3	78.5	78.5	78.6	78.7	78.7	78.8
>=8000	23.0	79.9	81.4	82.0	82.2	82.2	82.4	82.4	82.5	82.5
>=7000	23.5	82.1	83.7	84.4	84.5	84.5	84.7	84.7	84.8	84.9
>=6000	23.6	82.7	84.4	85.1	85.2	85.3	85.4	85.4	85.4	85.5
>=5000	23.9	83.6	85.3	86.0	86.1	86.2	86.3	86.3	86.3	86.5
>=4500	23.9	84.0	85.7	86.3	86.5	86.5	86.7	86.7	86.7	86.8
>=4000	24.2	85.2	86.9	87.6	87.7	87.8	88.0	88.0	88.1	88.1
>=3500	24.4	85.8	87.5	88.2	88.3	88.4	88.5	88.6	88.6	88.7
>=3000	24.7	87.6	89.4	90.1	90.3	90.3	90.5	90.5	90.7	90.7
>=2500	25.0	89.3	91.3	92.0	92.2	92.3	92.4	92.5	92.5	92.6
>=2000	25.4	91.3	93.4	94.2	94.4	94.5	94.6	94.7	94.7	94.9
>=1800	25.5	91.6	93.7	94.6	94.8	94.9	95.1	95.1	95.3	95.3
>=1500	25.6	92.6	94.8	95.8	96.1	96.2	96.3	96.4	96.6	96.6
>=1200	25.7	93.2	95.5	96.6	96.8	96.9	97.1	97.2	97.4	97.4
>=1000	25.8	93.8	96.2	97.3	97.6	97.7	97.9	98.0	98.2	98.2
>=900	25.8	93.8	96.3	97.4	97.7	97.8	98.0	98.1	98.3	98.3
>=800	25.8	94.0	96.6	97.8	98.1	98.2	98.5	98.6	98.9	98.9
>=700	25.8	94.2	96.8	98.0	98.3	98.5	98.7	98.8	98.9	99.1
>=600	25.8	94.2	96.9	98.1	98.4	98.6	98.8	98.9	99.0	99.2
>=500	25.8	94.2	97.0	98.1	98.5	98.7	99.0	99.1	99.1	99.3
>=400	25.8	94.3	97.0	98.2	98.5	98.7	99.0	99.1	99.1	99.4
>=300	25.8	94.3	97.0	98.2	98.5	98.7	99.0	99.1	99.1	99.5
>=200	25.8	94.3	97.0	98.2	98.6	98.7	99.0	99.1	99.2	99.5
>=100	25.8	94.3	97.0	98.2	98.6	98.7	99.0	99.1	99.2	99.5
>=0	25.8	94.3	97.0	98.2	98.6	98.7	99.0	99.1	99.2	99.5

TOTAL NO. OF OBS : 6990

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)											TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	2.6	3.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	7.8	4.5
NNE	1.7	3.1	2.8	.3	.0	.0	.0	.0	.0	.0	.0	7.9	5.7
NE	1.0	2.3	.8	.2	.1	.0	.0	.0	.0	.0	.0	4.5	5.4
ENE	4.0	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	6.9	3.8
E	9.4	8.2	1.6	.3	.1	.0	.0	.0	.0	.0	.0	19.7	4.0
ESE	1.5	2.8	2.2	1.4	.2	.0	.0	.0	.0	.0	.0	8.0	7.3
SE	.1	.3	1.8	1.5	.0	.0	.0	.0	.0	.0	.0	3.8	9.8
SSE	.3	1.3	1.0	.6	.0	.0	.0	.0	.0	.0	.0	3.2	7.3
S	.3	.7	1.1	.7	.0	.0	.0	.0	.0	.0	.0	2.9	8.1
SSW	.1	.5	1.0	.5	.1	.0	.0	.0	.0	.0	.0	2.2	8.9
SW	.0	.3	.9	.8	.0	.0	.0	.0	.0	.0	.0	2.1	9.9
WSW	.1	.5	1.1	.6	.1	.0	.0	.0	.0	.0	.0	2.4	8.8
W	.2	1.5	1.1	1.1	.1	.0	.0	.0	.0	.0	.0	4.1	8.5
WNW	.8	.9	1.3	.7	.0	.0	.0	.0	.0	.0	.0	3.7	7.0
NW	1.7	2.4	1.7	1.4	.1	.0	.0	.0	.0	.0	.0	6.9	7.1
NNW	1.4	2.6	1.1	.2	.0	.0	.0	.0	.0	.0	.0	5.4	5.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	.0
ALL	25.1	33.4	21.6	10.5	.9	.0	.0	.0	.0	.0	.0	100.0	5.5

TOTAL NO. OF OBS : 870

NOTES : \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)												TOTAL	MEAN
16 PT.	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND		
DIR.													SPEED		
N	2.6	4.6	1.8	.1	.0	.0	.0	.0	.0	.0	.0	9.2	4.8		
NNE	2.2	4.5	2.9	.6	.1	.0	.0	.0	.0	.0	.0	10.2	5.9		
NE	2.3	3.8	2.2	.6	.0	.0	.0	.0	.0	.0	.0	8.9	5.6		
ENE	4.8	4.5	.9	.1	.0	.0	.0	.0	.0	.0	.0	10.3	3.8		
E	6.7	7.7	1.4	.7	.0	.0	.0	.0	.0	.0	.0	16.4	4.3		
ESE	.9	.9	1.5	1.0	.1	.0	.0	.0	.0	.0	.0	4.5	7.9		
SE	.3	.9	1.7	1.5	.1	.0	.0	.0	.0	.0	.0	4.6	9.4		
SSE	.1	.3	.7	1.1	.2	.0	.0	.0	.0	.0	.0	2.5	11.0		
S	.1	.7	1.7	.6	.0	.0	.0	.0	.0	.0	.0	3.1	8.7		
SSW	.0	.5	.7	.0	.0	.2	.0	.0	.0	.0	.0	1.4	10.0		
SW	.1	.3	.7	.8	.2	.0	.0	.0	.0	.0	.0	2.2	10.6		
WSW	.1	.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.6	9.1		
W	.5	.5	1.6	1.5	.1	.0	.0	.0	.0	.0	.0	4.1	9.1		
WNW	.0	.8	1.3	.6	.1	.0	.0	.0	.0	.0	.0	2.8	9.0		
NW	1.0	2.0	1.6	.7	.1	.0	.0	.0	.0	.0	.0	5.4	6.8		
NNW	1.1	1.8	1.3	.7	.1	.0	.0	.0	.0	.0	.0	5.1	6.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0		
ALL	23.0	34.1	22.5	11.1	1.3	.2	.0	.0	.0	.0	.0	100.0	5.8		

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
1	- 31	4	- 61	7-101	11-161	17-211	22-271	28-331	34-401	41-471	48-551	>=561							
N	1.3	2.4		1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.5	5.5	5.5			
NNE	1.6	4.7		5.1	1.0	.1	.0	.0	.0	.0	.0	.0	.0	12.5	6.8	6.8			
NE	2.3	5.9		3.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	12.3	5.6	5.6			
ENE	3.6	6.6		.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	4.2	4.2			
E	5.6	8.5		1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	15.4	4.2	4.2			
ESE	.3	1.5		1.4	.6	.5	.0	.0	.0	.0	.0	.0	.0	4.3	8.4	8.4			
SE	.1	.7		1.3	1.5	.0	.0	.0	.0	.0	.0	.0	.0	3.6	9.6	9.6			
SSE	.1	.5		1.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	3.0	10.1	10.1			
S	.1	1.0		1.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	3.2	9.4	9.4			
SSW	.0	.3		1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.8	8.9	8.9			
SW	.1	.3		.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.0	9.2	9.2			
WSW	.2	.2		.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.8	9.3	9.3			
W	.3	.6		1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	2.9	8.3	8.3			
WNW	.5	.9		.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.4	7.4			
NW	.8	1.8		1.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.0	7.0			
NNW	1.1	1.8		.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	3.9	5.6	5.6			
VAR	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	.0	.0			
ALL	18.2	37.8		23.6	9.8	1.3	.1	.0	.0	.0	.0	.0	.0	100.0	5.8	5.8			

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)												TOTAL		MEAN	
		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%				
16 PT.	DIR.																
	N	1.5	2.9	2.0	.3	.0	.0	.0	.0	.0	.0	.0	6.7	5.8			
	NNE	1.1	3.7	4.8	2.3	.1	.0	.0	.0	.0	.0	.0	12.1	7.5			
	NE	2.1	6.8	5.4	.9	.0	.0	.0	.0	.0	.0	.0	15.2	6.3			
	ENE	2.9	7.2	1.5	.2	.0	.0	.0	.0	.0	.0	.0	11.8	4.8			
	E	4.3	5.3	2.0	.5	.0	.0	.0	.0	.0	.0	.0	12.0	4.8			
	ESE	1.4	1.5	1.1	.6	.6	.1	.0	.0	.0	.0	.0	5.3	8.0			
	SE	.1	1.3	1.5	1.1	.1	.0	.0	.0	.0	.0	.0	4.1	9.0			
	SSE	.3	.3	2.2	.9	.1	.0	.0	.0	.0	.0	.0	3.9	9.3			
	S	.7	.2	1.1	.6	.3	.0	.0	.0	.0	.0	.0	3.0	9.2			
	SSW	.0	.3	.6	.8	.2	.0	.0	.0	.0	.0	.0	2.0	11.0			
	SW	.1	.7	.8	.8	.0	.0	.0	.0	.0	.0	.0	2.4	8.7			
	WSW	.0	.2	1.1	.6	.1	.0	.0	.0	.0	.0	.0	2.1	9.8			
	W	.1	.9	1.6	1.4	.0	.0	.0	.0	.0	.0	.0	4.0	9.1			
	WNW	.0	.6	1.1	.6	.0	.0	.0	.0	.0	.0	.0	2.3	8.9			
	NW	.5	.9	1.4	1.3	.2	.0	.0	.0	.0	.0	.0	4.3	9.3			
	NNW	.7	1.4	1.6	.6	.1	.0	.0	.0	.0	.0	.0	4.4	7.4			
	VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	.0			
	ALL	15.7	34.3	29.9	13.4	2.0	.1	.0	.0	.0	.0	.0	100.0	6.7			

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1300 LST

CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	1.0	1.6	3.2	.8	.0	.0	.0	.0	.0	.0	.0	6.7	7.2
NNE	.9	2.5	4.7	2.0	.2	.1	.0	.0	.0	.0	.0	10.5	8.5
NE	.7	3.4	3.3	.9	.2	.0	.0	.0	.0	.0	.0	8.6	7.2
ENE	1.0	2.0	1.8	.7	.0	.0	.0	.0	.0	.0	.0	5.5	6.5
E	.8	2.0	1.8	1.3	.5	.0	.0	.0	.0	.0	.0	6.3	8.6
ESE	.2	.9	2.5	3.0	.5	.1	.0	.0	.0	.0	.0	7.2	10.9
SE	.3	.6	2.3	1.7	.2	.1	.0	.0	.0	.0	.0	5.3	10.4
SSE	1.5	.5	2.0	1.4	.1	.1	.0	.0	.0	.0	.0	5.5	8.2
S	.9	2.2	2.3	2.8	.1	.0	.0	.0	.0	.0	.0	8.3	8.5
SSW	.1	1.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	3.7	9.0
SW	.5	.2	1.3	1.0	.2	.0	.0	.0	.0	.0	.0	3.2	9.8
WSW	.3	.9	1.5	1.4	.2	.0	.0	.0	.0	.0	.0	4.4	9.1
W	.7	2.2	2.8	2.2	.2	.0	.0	.0	.0	.0	.0	8.0	8.5
WNW	.5	.9	2.4	1.8	.2	.0	.0	.0	.0	.0	.0	5.9	9.7
NW	.2	.5	1.6	2.1	.1	.0	.0	.0	.0	.0	.0	4.5	10.3
NNW	.0	1.4	1.4	.8	.0	.0	.0	.0	.0	.0	.0	3.6	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0
ALL	9.8	22.8	36.2	25.1	2.9	.5	.0	.0	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)										TOTAL		MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	
N	.2	2.2	2.3	.5	.0	.0	.0	.0	.0	.0	.0	5.2	7.0
NNE	.5	2.4	3.2	1.4	.3	.0	.0	.0	.0	.0	.0	7.8	8.5
NE	1.2	1.8	1.7	.7	.2	.0	.0	.0	.0	.0	.0	5.6	7.1
ENE	.3	.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.8
E	.6	.9	1.5	.6	.1	.0	.0	.0	.0	.0	.0	3.7	7.9
ESE	.1	1.0	2.0	2.8	.7	.0	.0	.0	.0	.0	.0	6.6	11.2
SE	.0	.7	2.3	2.8	.2	.0	.0	.0	.0	.0	.0	6.0	10.5
SSE	.1	.5	2.2	.8	.0	.0	.0	.0	.0	.0	.0	3.6	9.1
S	.9	2.8	2.9	2.2	.0	.0	.0	.0	.0	.0	.0	8.7	8.2
SSW	1.2	.9	1.5	.3	.1	.1	.0	.0	.0	.0	.0	4.1	7.3
SW	.7	1.8	1.6	1.5	.1	.1	.0	.0	.0	.0	.0	5.9	8.4
WSW	.2	2.3	2.8	1.0	.2	.0	.0	.0	.0	.0	.0	6.6	8.2
W	1.3	3.9	6.2	2.2	.7	.0	.0	.0	.0	.0	.0	14.3	8.2
WNW	.1	2.4	4.3	2.5	.6	.0	.0	.0	.0	.0	.0	9.9	9.3
NW	.1	1.0	2.2	1.3	.1	.0	.0	.0	.0	.0	.0	4.7	9.2
NNW	.1	.9	2.2	.6	.0	.0	.0	.0	.0	.0	.0	3.8	8.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0
ALL	7.6	26.1	39.9	21.1	3.5	.2	.0	.0	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 869

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. 1	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	
																%	MEAN
OVR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND SPEED
N	2.3	3.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	4.3
NNE	1.4	2.6	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.5
NE	.9	1.7	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	5.8
ENE	.6	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.9
E	1.4	1.6	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.5
ESE	.9	3.1	2.8	2.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	8.2
SE	.6	2.1	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	7.3
SSE	.8	1.0	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	7.7
S	.9	1.7	1.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.9
SSW	.5	.8	.9	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	9.1
SW	.5	1.3	.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.7
WSW	1.1	1.7	2.1	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.2
W	2.1	4.5	2.5	1.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	6.9
WNW	3.9	2.2	1.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	5.5
NW	3.2	1.8	1.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	5.6
NNW	3.0	2.4	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	4.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	.0
ALL	24.0	32.5	21.5	11.5	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.9

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL %		MEAN
DIR.									22-27	28-33	34-40	41-47	48-55	>=56		WIND SPEED
N	2.3	3.1	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	4.7
NNE	1.7	2.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.2
NE	2.4	1.3	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.3
ENE	1.5	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.1
E	5.4	3.6	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	4.1
ESE	1.8	4.3	3.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	6.7
SE	1.0	1.8	1.4	1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
SSE	.3	1.1	.8	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.9
S	.8	1.3	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.7
SSW	.1	.8	1.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.2
SW	.2	.3	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	10.0
WSW	.5	1.3	1.5	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.9
W	1.0	1.6	2.2	1.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	6.7	8.2
WNW	1.4	1.6	.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.3
NW	1.1	2.1	2.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.8
NNW	2.6	2.4	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	.0
ALL	24.4	30.0	21.1	10.5	1.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	5.5

TOTAL NO. OF OBS : 870

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	- 3	4	- 6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL %					MEAN WIND SPEED
									22-27	28-33	34-40	41-47	48-55	>56					
N	1.7	3.0	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.4			
NNE	1.4	3.2	3.2	1.0	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.9			
NE	1.6	3.4	2.3	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.0			
ENE	2.3	3.1	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	4.5			
E	4.3	4.7	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	4.8			
ESE	.9	2.0	2.1	1.6	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	7.0	8.5			
SE	.3	1.0	1.8	1.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.2			
SSE	.5	.7	1.4	.9	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.7			
S	.6	1.3	1.5	1.1	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.2			
SSW	.2	.6	1.0	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.9			
SW	.3	.7	1.0	.8	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	2.9	9.1			
WSW	.3	.9	1.4	.8	.1	.0	.0*	.0	.0	.0	.0	.0	.0	.0	3.6	8.4			
W	.8	2.0	2.4	1.5	.2	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	6.9	8.2			
WNW	.9	1.3	1.7	1.0	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.8			
NW	1.0	1.6	1.6	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.5			
NNW	1.3	1.9	1.3	.5	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	6.1			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0			
ALL	18.5	31.4	27.0	14.1	1.9	.2	.0*	.0	.0	.0	.0	.0	.0	.0	100.0	6.5			

TOTAL NO. OF OBS : 6959

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : NOV  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.0	62.8	65.1	66.5	66.8	66.8	66.8	67.2	67.3	67.3	67.3	67.3	67.4	67.5	67.6
>=20000	14.0	65.3	67.5	69.2	69.5	69.5	69.5	69.9	70.0	70.0	70.0	70.0	70.2	70.3	70.5
>=18000	14.0	65.7	67.9	69.5	69.9	69.9	69.9	70.2	70.3	70.3	70.3	70.3	70.6	70.7	70.8
>=16000	14.0	65.7	67.9	69.5	69.9	69.9	69.9	70.2	70.3	70.3	70.3	70.3	70.6	70.7	70.8
>=14000	14.0	65.9	68.1	69.8	70.1	70.1	70.1	70.5	70.6	70.6	70.6	70.6	70.8	70.9	70.9
>=12000	14.5	67.1	69.3	70.9	71.3	71.3	71.3	71.6	71.7	71.7	71.7	71.7	72.0	72.1	72.2
>=10000	14.9	68.9	71.2	72.8	73.2	73.2	73.2	73.5	73.6	73.6	73.6	73.6	74.0	74.1	74.2
>=9000	15.0	70.0	72.2	73.9	74.2	74.2	74.2	74.6	74.7	74.7	74.7	74.7	74.9	75.0	75.1
>=8000	15.7	73.3	75.6	77.4	77.7	77.7	77.7	78.1	78.2	78.2	78.2	78.2	78.4	78.5	78.7
>=7000	15.9	75.4	77.8	79.6	80.0	80.0	80.0	80.3	80.4	80.4	80.4	80.4	80.7	80.8	80.9
>=6000	16.2	76.8	79.4	81.1	81.5	81.5	81.5	81.8	81.9	81.9	81.9	81.9	82.2	82.3	82.4
>=5000	16.4	78.3	81.0	82.9	83.2	83.2	83.2	83.6	83.7	83.7	83.7	83.7	83.9	84.1	84.2
>=4500	16.4	79.1	81.8	83.7	84.1	84.1	84.1	84.4	84.5	84.5	84.5	84.5	84.8	84.9	85.0
>=4000	16.8	81.2	83.9	85.8	86.2	86.2	86.2	86.5	86.6	86.6	86.6	86.6	86.9	87.0	87.1
>=3500	17.0	82.2	84.9	86.8	87.1	87.1	87.1	87.5	87.6	87.6	87.6	87.6	87.8	87.9	88.0
>=3000	17.2	84.3	87.0	88.9	89.2	89.2	89.2	89.6	89.7	89.7	89.7	89.7	89.9	90.0	90.2
>=2500	17.7	86.6	89.3	91.2	91.6	91.6	91.6	91.9	92.0	92.0	92.0	92.0	92.3	92.4	92.5
>=2000	17.8	88.3	91.6	93.4	93.8	93.8	93.8	94.1	94.3	94.3	94.3	94.3	94.5	94.6	94.7
>=1800	17.8	88.5	91.8	93.8	94.1	94.1	94.1	94.5	94.6	94.6	94.6	94.6	94.8	95.0	95.1
>=1500	17.8	89.7	93.3	95.3	95.8	95.8	95.8	96.1	96.4	96.4	96.4	96.4	96.6	96.7	96.8
>=1200	17.8	89.9	93.6	95.8	96.4	96.4	96.4	96.7	97.0	97.0	97.0	97.0	97.2	97.3	97.4
>=1000	17.9	90.4	94.3	96.7	97.3	97.3	97.3	97.8	98.0	98.0	98.0	98.0	98.2	98.4	98.5
>=900	17.9	90.6	94.5	97.0	97.5	97.5	97.5	97.7	98.0	98.2	98.2	98.2	98.5	98.6	98.7
>=800	17.9	90.7	94.6	97.1	97.7	97.7	97.7	97.8	98.1	98.4	98.4	98.4	98.6	98.7	98.8
>=700	17.9	90.7	94.6	97.1	97.7	97.7	97.7	97.9	98.2	98.6	98.6	98.6	98.9	99.1	99.2
>=600	17.9	90.9	94.7	97.2	97.8	97.8	97.8	98.0	98.4	98.8	98.8	98.8	99.2	99.3	99.4
>=500	17.9	90.9	94.7	97.2	97.8	97.8	97.8	98.4	98.8	98.8	98.8	98.8	99.2	99.3	99.4
>=400	17.9	91.0	94.8	97.4	98.0	98.0	98.0	98.6	99.1	99.1	99.1	99.1	99.4	99.5	99.6
>=300	17.9	91.0	94.8	97.4	98.0	98.0	98.0	98.6	99.1	99.1	99.1	99.1	99.4	99.5	99.6
>=200	17.9	91.0	94.8	97.4	98.0	98.0	98.0	98.2	98.6	99.1	99.1	99.1	99.4	99.5	99.6
>=100	17.9	91.0	94.8	97.4	98.0	98.0	98.0	98.2	98.6	99.1	99.1	99.1	99.4	99.5	99.6
>=0	17.9	91.0	94.8	97.4	98.0	98.0	98.0	98.2	98.6	99.1	99.1	99.1	99.4	99.5	99.6

TOTAL NO. OF OBS : 853

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.4	63.2	65.9	67.3	67.6	67.6	67.9	67.9	67.9	68.5	68.5	68.7	68.8	68.9	69.2	70.1
>=20000	13.4	64.8	67.5	69.2	69.5	69.5	69.8	69.8	69.8	70.4	70.4	70.6	70.7	70.8	71.1	72.0
>=18000	13.4	64.9	67.6	69.3	69.6	69.6	69.9	69.9	69.9	70.5	70.5	70.7	70.8	70.9	71.2	72.1
>=16000	13.4	64.9	67.6	69.3	69.6	69.6	69.9	69.9	69.9	70.5	70.5	70.7	70.8	70.9	71.2	72.1
>=14000	13.5	65.5	68.2	69.9	70.2	70.2	70.5	70.5	70.5	71.1	71.1	71.3	71.4	71.5	71.8	72.7
>=12000	13.8	66.4	69.1	70.7	71.1	71.1	71.3	71.3	71.3	71.9	71.9	72.1	72.2	72.4	72.6	73.5
>=10000	14.0	67.5	70.2	71.9	72.2	72.2	72.5	72.5	72.5	73.1	73.1	73.3	73.4	73.5	73.8	74.7
>= 9000	14.0	68.5	71.2	72.8	73.2	73.2	73.4	73.4	73.4	74.0	74.0	74.2	74.4	74.5	74.7	75.6
>= 8000	14.1	72.2	75.1	76.9	77.3	77.3	77.5	77.5	77.5	78.1	78.1	78.4	78.5	78.6	78.8	79.8
>= 7000	14.2	73.9	76.8	78.7	79.1	79.1	79.3	79.3	79.3	79.9	79.9	80.1	80.2	80.4	80.6	81.5
>= 6000	14.4	75.2	78.1	80.0	80.4	80.4	80.6	80.6	80.6	81.2	81.2	81.4	81.5	81.6	81.9	82.8
>= 5000	14.4	77.2	80.2	82.1	82.5	82.5	82.7	82.7	82.7	83.3	83.3	83.5	83.6	83.8	84.0	84.9
>= 4500	14.7	77.8	80.8	82.7	83.1	83.1	83.3	83.3	83.3	83.9	83.9	84.1	84.2	84.4	84.6	85.5
>= 4000	15.1	78.9	82.0	83.9	84.2	84.2	84.5	84.5	84.5	85.1	85.1	85.3	85.4	85.5	85.8	86.7
>= 3500	15.3	80.0	83.1	85.1	85.4	85.4	85.6	85.6	85.6	86.2	86.2	86.5	86.6	86.7	86.9	87.9
>= 3000	15.5	81.2	84.5	86.5	86.8	86.8	87.2	87.2	87.2	87.8	87.8	88.0	88.1	88.2	88.5	89.4
>= 2500	15.9	83.6	87.1	89.2	89.5	89.5	89.9	89.9	89.9	90.5	90.5	90.7	90.8	90.9	91.2	92.1
>= 2000	16.1	85.2	88.6	90.7	91.1	91.1	91.4	91.4	91.4	92.0	92.0	92.2	92.4	92.5	92.7	93.6
>= 1800	16.1	85.4	88.9	91.2	91.5	91.5	92.0	92.0	92.0	92.6	92.6	92.8	92.9	93.1	93.3	94.2
>= 1500	16.1	86.7	90.7	93.3	93.6	93.6	94.1	94.1	94.1	94.7	94.7	94.9	95.1	95.2	95.4	96.4
>= 1200	16.2	87.1	91.1	94.0	94.4	94.4	94.8	94.8	94.8	95.5	95.5	95.8	95.9	96.0	96.2	97.2
>= 1000	16.4	87.6	91.6	94.6	94.9	94.9	95.5	95.5	95.5	96.2	96.2	96.5	96.6	96.7	96.9	97.9
>= 900	16.4	87.6	91.6	94.6	95.1	95.1	95.6	95.6	95.6	96.4	96.4	96.6	96.7	96.8	97.1	98.0
>= 800	16.4	88.0	92.0	94.9	95.4	95.4	96.2	96.2	96.2	96.9	96.9	97.2	97.3	97.4	97.5	98.7
>= 700	16.4	88.0	92.0	95.1	95.5	95.5	96.4	96.4	96.4	97.1	97.1	97.3	97.4	97.5	98.0	98.9
>= 600	16.4	88.2	92.2	95.3	95.8	95.8	96.6	96.6	96.6	97.3	97.3	97.5	97.6	97.8	98.2	99.2
>= 500	16.4	88.5	92.6	95.6	96.1	96.2	96.9	96.9	96.9	97.6	97.6	97.9	98.0	98.1	98.6	99.5
>= 400	16.4	88.5	92.6	95.6	96.1	96.2	96.9	96.9	96.9	97.6	97.6	97.9	98.0	98.1	98.6	99.5
>= 300	16.4	88.5	92.6	95.6	96.1	96.2	96.9	96.9	96.9	97.6	97.6	97.9	98.0	98.1	98.6	99.5
>= 200	16.4	88.5	92.6	95.6	96.2	96.4	97.1	97.1	97.1	97.8	97.8	98.0	98.1	98.2	98.7	99.6
>= 100	16.4	88.5	92.6	95.6	96.2	96.4	97.1	97.1	97.1	97.8	97.8	98.0	98.1	98.2	98.7	99.8
>= 0	16.4	88.5	92.6	95.6	96.2	96.4	97.1	97.1	97.1	97.8	97.8	98.0	98.2	98.4	98.8	100.0

TOTAL NO. OF OBS : 850

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.8	59.5	62.9	64.7	65.6	65.6	65.8	66.3	66.4	66.7	66.7	66.8	67.4	67.5	67.5	67.8
>=20000	10.8	60.8	64.2	66.2	67.1	67.1	67.4	67.8	68.0	68.2	68.2	68.3	68.9	69.0	69.0	69.4
>=18000	10.8	61.3	64.7	66.7	67.6	67.6	67.8	68.3	68.4	68.7	68.7	68.8	69.4	69.5	69.5	69.8
>=16000	10.8	61.3	64.7	66.7	67.6	67.6	67.8	68.3	68.4	68.7	68.7	68.8	69.4	69.5	69.5	69.8
>=14000	11.0	62.0	65.4	67.4	68.3	68.3	68.5	69.0	69.1	69.4	69.4	69.5	70.1	70.2	70.2	70.5
>=12000	11.0	62.6	66.0	68.0	68.9	68.9	69.1	69.6	69.7	70.0	70.0	70.1	70.7	70.8	70.8	71.1
>=10000	11.5	63.7	67.3	69.2	70.2	70.2	70.4	70.9	71.0	71.2	71.2	71.4	71.9	72.1	72.1	72.4
>= 9000	11.7	64.8	68.3	70.3	71.2	71.2	71.5	71.9	72.1	72.3	72.3	72.4	73.0	73.1	73.1	73.5
>= 8000	12.4	68.8	72.3	74.4	75.4	75.4	75.6	76.1	76.2	76.5	76.5	76.6	77.2	77.3	77.3	77.7
>= 7000	12.7	70.8	74.5	76.6	77.6	77.6	77.8	78.3	78.4	78.8	78.8	78.9	79.5	79.6	79.7	80.0
>= 6000	12.7	71.2	75.1	77.2	78.2	78.2	78.4	78.9	79.0	79.3	79.3	79.5	80.0	80.2	80.3	80.6
>= 5000	12.7	72.1	75.9	78.1	79.0	79.0	79.2	79.7	79.8	80.2	80.2	80.3	80.9	81.0	81.1	81.5
>= 4500	13.0	72.9	76.8	78.9	79.8	79.8	80.0	80.5	80.6	81.0	81.0	81.1	81.7	81.8	81.9	82.3
>= 4000	13.3	74.6	78.8	80.9	81.8	81.8	82.0	82.5	82.6	83.0	83.0	83.1	83.7	83.8	83.9	84.3
>= 3500	13.4	75.4	79.5	81.7	82.6	82.6	82.9	83.3	83.5	83.8	83.8	83.9	84.5	84.6	84.7	85.1
>= 3000	14.0	77.7	81.8	84.2	85.1	85.1	85.3	85.8	85.9	86.3	86.3	86.4	87.0	87.1	87.2	87.6
>= 2500	14.4	80.3	84.5	87.0	88.0	88.1	88.4	88.8	89.0	89.3	89.3	89.4	90.0	90.1	90.3	90.6
>= 2000	14.6	82.0	86.9	89.3	90.4	90.5	90.7	91.3	91.4	91.8	91.8	91.9	92.5	92.6	92.7	93.1
>= 1800	14.6	82.2	87.0	89.4	90.5	90.6	90.8	91.4	91.5	91.9	91.9	92.0	92.6	92.7	92.8	93.2
>= 1500	14.7	83.6	88.7	91.3	92.5	92.6	92.8	93.5	93.7	94.0	94.0	94.1	94.7	94.8	95.0	95.3
>= 1200	14.8	83.8	89.0	91.9	93.1	93.2	93.4	94.1	94.2	94.6	94.6	94.7	95.3	95.4	95.5	95.9
>= 1000	14.8	84.6	89.8	93.0	94.2	94.4	94.8	95.8	95.9	96.2	96.2	96.4	96.9	97.1	97.2	97.5
>= 900	14.8	84.9	90.1	93.3	94.6	94.7	95.2	96.1	96.2	96.6	96.6	96.7	97.3	97.4	97.5	97.9
>= 800	14.8	85.1	90.4	93.5	95.0	95.1	95.5	96.6	96.7	97.2	97.2	97.3	97.9	98.0	98.1	98.5
>= 700	14.8	85.3	90.7	94.0	95.4	95.5	96.1	97.2	97.3	97.8	97.8	97.9	98.5	98.6	98.7	99.1
>= 600	14.8	85.4	90.8	94.1	95.5	95.7	96.2	97.3	97.4	97.9	97.9	98.0	98.6	98.7	98.8	99.2
>= 500	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	99.3
>= 400	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	99.3
>= 300	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	99.3
>= 200	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	99.3
>= 100	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	99.5
>= 0	14.8	85.4	91.0	94.2	95.7	95.8	96.4	97.4	97.5	98.0	98.0	98.1	98.7	98.8	98.9	100.0

TOTAL NO. OF OBS : 852

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	15.0	49.5	53.4	55.5	56.2	56.4	57.0	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.5
>=20000	15.4	52.4	56.4	58.6	59.6	59.8	60.4	60.7	60.7	60.7	60.8	60.8	60.8	60.9	60.9	61.0
>=18000	15.4	53.0	57.0	59.3	60.3	60.6	61.2	61.4	61.4	61.4	61.5	61.5	61.5	61.7	61.7	61.9
>=16000	15.5	53.2	57.2	59.5	60.4	60.7	61.3	61.5	61.5	61.5	61.7	61.7	61.7	61.8	61.8	62.0
>=14000	15.8	53.6	57.6	60.0	60.9	61.2	61.8	62.0	62.0	62.0	62.1	62.1	62.1	62.3	62.3	62.5
>=12000	16.0	53.9	57.9	60.2	61.2	61.4	62.0	62.3	62.3	62.3	62.4	62.4	62.4	62.5	62.5	63.0
>=10000	16.7	56.6	60.7	63.0	64.0	64.2	64.8	65.0	65.0	65.0	65.2	65.2	65.2	65.3	65.3	66.0
>= 9000	17.0	58.4	62.5	64.8	65.8	66.0	66.6	66.9	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.8
>= 8000	18.6	65.2	69.5	71.8	72.8	73.1	73.8	74.0	74.0	74.0	74.2	74.2	74.2	74.3	74.3	75.0
>= 7000	19.1	68.1	72.6	75.0	76.0	76.2	77.1	77.3	77.3	77.3	77.4	77.4	77.4	77.5	77.5	78.3
>= 6000	19.2	68.4	72.9	75.4	76.3	76.6	77.4	77.7	77.7	77.7	77.8	77.8	77.8	77.9	77.9	78.6
>= 5000	19.3	69.5	74.0	76.5	77.4	77.7	78.5	78.8	78.8	78.8	78.9	78.9	78.9	79.0	79.0	79.7
>= 4500	19.3	70.3	74.8	77.2	78.2	78.4	79.2	79.5	79.5	79.5	79.6	79.6	79.6	79.7	79.7	80.5
>= 4000	19.5	73.5	78.0	80.7	81.7	81.9	82.9	83.1	83.1	83.1	83.3	83.3	83.3	83.4	83.4	84.1
>= 3500	19.9	74.4	79.1	81.8	82.8	83.0	84.0	84.2	84.2	84.2	84.3	84.3	84.3	84.5	84.5	85.2
>= 3000	20.6	76.7	81.6	84.2	85.2	85.4	86.4	86.7	86.7	86.7	86.8	86.8	86.8	86.9	86.9	87.6
>= 2500	20.9	78.6	83.7	86.5	87.6	87.9	89.0	89.2	89.2	89.2	89.3	89.3	89.3	89.4	89.4	90.3
>= 2000	21.0	80.1	85.6	88.6	89.7	89.9	91.0	91.3	91.3	91.3	91.4	91.5	91.5	91.6	91.6	92.5
>= 1800	21.0	80.5	85.9	89.0	90.0	90.3	91.4	91.6	91.6	91.6	91.7	91.9	91.9	92.0	92.0	92.8
>= 1500	21.4	82.4	88.0	91.1	92.2	92.6	93.7	93.9	93.9	93.9	94.2	94.3	94.3	94.4	94.4	95.3
>= 1200	21.4	83.0	88.8	92.0	93.1	93.6	94.7	94.9	94.9	94.9	95.1	95.4	95.4	95.5	95.5	96.4
>= 1000	21.6	83.9	89.7	92.8	93.9	94.4	95.5	95.8	95.8	95.8	96.0	96.2	96.2	96.4	96.4	97.2
>= 900	21.6	83.9	89.8	93.0	94.1	94.5	95.8	96.0	96.0	96.0	96.4	96.6	96.6	96.7	96.7	97.6
>= 800	21.8	84.2	90.3	93.6	94.7	95.1	96.4	96.6	96.6	96.6	97.1	97.3	97.3	97.5	97.5	98.3
>= 700	21.8	84.2	90.3	93.7	94.8	95.3	96.5	96.8	96.8	96.8	97.3	97.6	97.6	97.7	97.7	98.5
>= 600	21.8	84.2	90.4	93.8	94.9	95.4	96.6	97.0	97.0	97.0	97.5	97.7	97.7	97.8	97.8	98.7
>= 500	21.8	84.2	90.5	93.9	95.0	95.5	96.7	97.1	97.1	97.1	97.6	97.8	97.8	97.9	97.9	98.8
>= 400	21.8	84.2	90.5	93.9	95.0	95.5	96.7	97.1	97.1	97.1	97.6	97.8	97.8	97.9	97.9	98.8
>= 300	21.8	84.2	90.5	93.9	95.0	95.5	96.8	97.2	97.2	97.2	97.8	98.1	98.1	98.2	98.2	99.2
>= 200	21.8	84.2	90.5	93.9	95.0	95.5	96.8	97.2	97.2	97.2	97.8	98.1	98.1	98.3	98.3	99.5
>= 100	21.8	84.2	90.5	93.9	95.0	95.5	97.0	97.3	97.3	97.3	97.9	98.2	98.2	98.4	98.4	99.6
>= 0	21.8	84.2	90.5	93.9	95.0	95.5	97.0	97.3	97.3	97.3	97.9	98.2	98.2	98.4	98.4	100.0

TOTAL NO. OF OBS : 824

DI3025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	18.6	55.0	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
>=20000	19.2	61.1	61.9	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
>=18000	19.2	61.8	62.6	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
>=16000	19.4	61.9	62.7	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
>=14000	19.5	62.1	63.0	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
>=12000	20.2	63.6	64.4	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
>=10000	20.6	64.9	65.7	66.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
>= 8000	20.9	66.0	66.9	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
>= 6000	22.4	71.8	72.7	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
>= 5000	23.1	75.7	76.7	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
>= 4000	23.4	76.7	77.8	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
>= 3500	23.7	77.4	78.6	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
>= 3000	23.8	77.6	78.8	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
>= 2500	24.6	79.7	80.9	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
>= 2000	25.8	81.9	83.1	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
>= 1800	26.3	85.1	86.4	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
>= 1600	27.3	87.4	88.8	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
>= 1500	27.6	89.2	90.9	91.7	91.8	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
>= 1200	27.8	89.5	91.2	92.1	92.2	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>= 1000	28.2	91.6	93.4	94.4	94.6	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>= 900	28.2	92.1	94.1	95.2	95.8	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>= 800	28.5	93.0	95.3	96.5	97.2	97.6	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0
>= 700	28.6	93.5	95.9	97.2	98.0	98.3	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
>= 600	28.6	93.5	95.9	97.4	98.1	98.4	98.8	98.8	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0
>= 500	28.6	93.6	96.0	97.5	98.2	98.6	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
>= 400	28.6	93.6	96.0	97.5	98.2	98.6	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6
>= 300	28.6	93.6	96.0	97.5	98.2	98.6	99.3	99.4	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8
>= 200	28.6	93.6	96.0	97.5	98.2	98.6	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0
>= 100	28.6	93.6	96.0	97.5	98.2	98.6	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0
>= 0	28.6	93.6	96.0	97.5	98.2	98.6	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0

TOTAL NO. OF OBS : 832



## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1/2
UNLIMIT	20.3	56.7	57.3	57.5	57.6	57.6	57.6	57.6	57.6	57.6
>=20000	20.8	61.0	61.6	61.9	62.1	62.1	62.1	62.1	62.1	62.1
>=18000	20.9	62.3	62.9	63.4	63.5	63.5	63.5	63.5	63.5	63.5
>=16000	21.0	62.4	63.0	63.6	63.7	63.7	63.7	63.7	63.7	63.7
>=14000	21.4	63.1	63.7	64.3	64.4	64.4	64.4	64.4	64.4	64.4
>=12000	21.8	64.3	64.9	65.5	65.6	65.6	65.6	65.6	65.6	65.6
>=10000	22.4	65.5	66.1	66.8	66.9	66.9	66.9	66.9	66.9	66.9
>=9000	22.9	67.1	67.7	68.4	68.5	68.5	68.5	68.5	68.5	68.5
>=8000	24.7	72.4	73.2	73.9	74.0	74.0	74.0	74.0	74.0	74.0
>=7000	25.3	75.8	76.6	77.3	77.6	77.6	77.6	77.6	77.6	77.6
>=6000	25.3	75.9	76.7	77.4	77.7	77.7	77.7	77.7	77.7	77.7
>=5000	25.7	76.7	77.6	78.3	78.5	78.6	78.6	78.6	78.6	78.6
>=4500	25.9	77.4	78.3	79.0	79.2	79.4	79.4	79.4	79.5	79.5
>=4000	26.5	80.0	80.9	81.7	82.0	82.1	82.1	82.1	82.2	82.2
>=3500	27.1	82.0	82.9	83.8	84.0	84.1	84.1	84.1	84.2	84.2
>=3000	28.0	85.9	86.9	87.7	88.1	88.2	88.2	88.2	88.3	88.3
>=2500	28.0	87.2	88.3	89.3	89.6	89.7	89.7	89.7	89.9	89.9
>=2000	29.4	89.9	90.9	92.0	92.4	92.5	92.7	92.7	92.8	92.8
>=1800	29.5	90.3	91.4	92.5	92.8	93.0	93.2	93.2	93.3	93.3
>=1500	30.9	92.8	94.2	95.2	95.7	95.8	96.3	96.4	96.5	96.5
>=1200	30.9	93.1	94.4	95.5	96.1	96.3	97.0	97.1	97.3	97.3
>=1000	30.9	93.4	94.7	95.8	96.5	96.8	97.6	97.7	98.1	98.1
>=900	30.9	93.4	94.9	95.9	96.7	96.9	97.7	97.9	98.2	98.2
>=800	30.9	93.7	95.1	96.2	96.9	97.1	98.1	98.2	98.8	98.8
>=700	30.9	93.8	95.2	96.3	97.0	97.3	98.2	98.3	98.9	98.9
>=600	30.9	93.9	95.3	96.4	97.3	97.6	98.6	98.7	99.3	99.3
>=500	30.9	94.0	95.6	96.7	97.5	97.9	98.9	99.0	99.6	99.6
>=400	30.9	94.0	95.6	96.8	97.6	98.0	99.0	99.2	99.8	99.8
>=300	30.9	94.2	95.7	96.9	97.7	98.1	99.2	99.3	99.9	99.9
>=200	30.9	94.2	95.7	96.9	97.7	98.1	99.2	99.3	99.9	99.9
>=100	30.9	94.2	95.7	96.9	97.7	98.1	99.2	99.3	99.9	99.9
>=0	30.9	94.2	95.7	96.9	97.7	98.1	99.2	99.3	99.9	99.9

TOTAL NO. OF OBS : 838

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	15.0	56.3	57.5	57.9	58.1	58.1	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
>=20000	15.0	60.9	62.2	62.7	62.9	62.9	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
>=18000	15.0	61.7	63.0	63.5	63.7	63.7	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
>=16000	15.1	61.8	63.1	63.6	63.9	63.9	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
>=14000	15.5	62.9	64.2	64.7	64.9	64.9	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
>=12000	15.6	63.4	64.9	65.4	65.7	65.7	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
>=10000	15.7	64.6	66.3	66.7	67.0	67.0	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>=9000	16.4	66.0	67.7	68.2	68.4	68.4	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
>=8000	17.4	70.2	72.0	72.6	73.0	73.0	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>=7000	18.4	75.0	77.1	77.8	78.2	78.2	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
>=6000	18.5	75.8	77.8	78.5	78.9	78.9	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
>=5000	18.5	76.1	78.2	78.9	79.2	79.2	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
>=4500	18.6	76.7	78.8	79.5	79.8	79.8	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=4000	19.2	78.4	80.6	81.3	81.6	81.6	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
>=3500	19.7	80.1	82.2	83.0	83.3	83.3	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
>=3000	20.5	83.7	86.0	86.8	87.2	87.2	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
>=2500	20.6	85.0	87.3	88.2	88.8	88.8	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>=2000	21.4	87.9	90.2	91.2	92.0	92.0	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=1800	21.4	88.1	90.4	91.5	92.2	92.2	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>=1500	21.7	89.7	92.4	93.9	94.6	94.6	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>=1200	21.8	90.2	92.9	94.4	95.1	95.1	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
>=1000	22.1	90.9	93.6	95.1	96.3	96.3	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>=900	22.1	90.9	93.8	95.2	96.5	96.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>=800	22.1	91.2	94.2	95.9	97.2	97.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
>=700	22.1	91.4	94.4	96.0	97.5	97.5	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
>=600	22.1	91.4	94.4	96.0	97.5	97.5	98.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>=500	22.1	91.4	94.4	96.3	97.7	97.7	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=400	22.1	91.5	94.5	96.4	97.8	97.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=300	22.1	91.5	94.5	96.4	97.8	97.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=200	22.1	91.5	94.5	96.4	97.8	97.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=100	22.1	91.5	94.5	96.4	97.8	97.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=0	22.1	91.5	94.5	96.4	97.8	97.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 833

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.2	62.6	64.2	65.4	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8
>=20000	13.2	64.5	66.3	67.6	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9
>=18000	13.3	65.1	66.9	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.5
>=16000	13.3	65.1	66.9	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.5
>=14000	13.6	66.0	67.8	69.1	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5
>=12000	13.7	66.7	68.7	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
>=10000	14.1	68.8	70.7	72.0	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
>=9000	14.5	69.5	71.4	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.1
>=8000	15.1	74.6	76.5	77.9	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3
>=7000	15.3	77.7	79.7	81.3	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6
>=6000	15.4	78.3	80.3	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.5
>=5000	15.9	80.2	82.2	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.4
>=4500	16.1	80.9	83.0	84.6	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.1
>=4000	16.7	83.6	85.7	87.4	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.8
>=3500	16.8	84.7	86.9	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.0
>=3000	17.3	86.7	88.8	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.9
>=2500	17.6	88.4	90.7	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.1
>=2000	17.6	90.2	93.0	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
>=1800	17.6	90.5	93.2	95.1	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.8
>=1500	17.6	91.4	94.6	96.8	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.5
>=1200	17.6	91.7	94.9	97.0	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.9
>=1000	17.6	92.0	95.4	97.6	98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7
>=900	17.6	92.0	95.5	97.7	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.9
>=800	17.6	92.3	95.8	98.2	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5
>=700	17.6	92.3	95.8	98.2	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5
>=600	17.6	92.3	95.8	98.2	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5
>=500	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>=400	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>=300	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>=200	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>=100	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
>=0	17.8	92.4	95.9	98.5	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NO. OF OBS : 839

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : NOV  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.0	58.3	60.3	61.4	61.8	61.9	62.1	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.4	62.5	62.5	62.6	62.8
>=20000	15.2	61.4	63.5	64.8	65.2	65.2	65.4	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.8	65.9	65.9	66.0	66.2
>=18000	15.3	62.0	64.1	65.4	65.8	65.9	66.1	66.2	66.2	66.2	66.3	66.3	66.3	66.4	66.4	66.5	66.6	66.7	66.9
>=16000	15.3	62.1	64.2	65.5	65.9	65.9	66.2	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.5	66.6	66.7	66.7	67.0
>=14000	15.5	62.7	64.8	66.1	66.5	66.6	66.8	66.9	66.9	66.9	67.0	67.0	67.1	67.1	67.1	67.2	67.3	67.4	67.6
>=12000	15.8	63.5	65.7	67.0	67.4	67.4	67.7	67.8	67.8	67.8	67.9	67.9	68.0	68.0	68.0	68.1	68.2	68.2	68.5
>=10000	16.2	65.1	67.3	68.6	69.0	69.1	69.3	69.4	69.4	69.4	69.6	69.6	69.6	69.6	69.6	69.8	69.8	69.9	70.1
>= 9000	16.5	66.3	68.5	69.9	70.3	70.3	70.5	70.6	70.7	70.8	70.8	70.8	70.9	70.9	71.0	71.0	71.0	71.1	71.3
>= 8000	17.5	71.1	73.4	74.8	75.2	75.3	75.5	75.6	75.7	75.8	75.8	75.8	75.9	75.9	76.0	76.0	76.0	76.1	76.4
>= 7000	18.0	74.1	76.5	78.0	78.4	78.5	78.7	78.8	78.9	78.9	79.0	79.0	79.1	79.1	79.2	79.3	79.3	79.3	79.6
>= 6000	18.1	74.8	77.3	78.8	79.2	79.3	79.5	79.6	79.7	79.7	79.8	79.8	79.9	79.9	80.0	80.1	80.1	80.2	80.4
>= 5000	18.3	76.0	78.5	80.0	80.4	80.5	80.7	80.9	80.9	81.0	81.1	81.1	81.2	81.2	81.3	81.3	81.4	81.4	81.7
>= 4500	18.4	76.6	79.1	80.7	81.1	81.2	81.4	81.5	81.6	81.7	81.7	81.7	81.8	81.8	81.9	82.0	82.1	82.1	82.3
>= 4000	18.9	78.8	81.4	82.9	83.4	83.4	83.7	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.2	84.2	84.3	84.3	84.6
>= 3500	19.3	80.1	82.7	84.3	84.7	84.8	85.1	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.6	85.6	85.7	85.7	86.0
>= 3000	19.9	82.7	85.4	87.0	87.4	87.5	87.8	87.9	87.9	88.1	88.1	88.1	88.2	88.2	88.3	88.3	88.4	88.4	88.7
>= 2500	20.3	84.7	87.5	89.2	89.7	89.8	90.1	90.2	90.2	90.4	90.4	90.4	90.5	90.5	90.6	90.7	90.7	90.7	91.0
>= 2000	20.7	86.6	89.7	91.5	92.0	92.1	92.5	92.6	92.6	92.8	92.8	92.8	93.0	93.2	93.2	93.4	93.4	93.5	93.8
>= 1800	20.7	86.9	90.0	91.8	92.4	92.5	92.8	93.0	93.0	93.2	93.2	93.2	93.5	93.5	93.6	93.7	93.8	93.8	94.1
>= 1500	21.0	88.5	91.9	93.9	94.5	94.7	95.1	95.3	95.3	95.5	95.5	95.5	95.6	95.6	95.7	95.8	95.9	96.1	96.4
>= 1200	21.1	88.8	92.3	94.5	95.1	95.3	95.8	96.0	96.0	96.2	96.2	96.2	96.3	96.3	96.5	96.5	96.6	96.6	96.9
>= 1000	21.2	89.5	93.1	95.3	96.1	96.3	96.8	97.1	97.1	97.3	97.3	97.3	97.4	97.4	97.6	97.6	97.7	97.7	98.0
>= 900	21.2	89.5	93.2	95.4	96.2	96.5	97.1	97.3	97.3	97.5	97.5	97.5	97.6	97.6	97.7	97.8	97.9	97.9	98.2
>= 800	21.2	89.8	93.5	95.8	96.7	96.9	97.6	97.8	97.8	98.0	98.0	98.1	98.2	98.2	98.3	98.4	98.5	98.6	98.9
>= 700	21.2	89.9	93.6	96.0	96.8	97.1	97.7	98.0	98.1	98.2	98.2	98.3	98.4	98.5	98.5	98.6	98.7	98.8	99.1
>= 600	21.2	90.0	93.7	96.1	96.9	97.2	97.9	98.2	98.2	98.3	98.4	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.3
>= 500	21.2	90.0	93.8	96.2	97.1	97.4	98.1	98.5	98.5	98.5	98.6	98.6	98.7	98.8	98.9	99.1	99.1	99.3	99.5
>= 400	21.2	90.1	93.9	96.3	97.2	97.5	98.2	98.5	98.5	98.6	98.6	98.7	98.8	98.9	99.0	99.2	99.2	99.4	99.6
>= 300	21.2	90.1	93.9	96.3	97.2	97.5	98.2	98.6	98.6	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.3	99.4	99.7
>= 200	21.2	90.1	93.9	96.3	97.2	97.5	98.2	98.6	98.6	98.6	98.7	98.7	98.8	98.9	99.0	99.2	99.3	99.5	99.8
>= 100	21.2	90.1	93.9	96.3	97.2	97.5	98.3	98.6	98.7	98.7	98.8	98.8	98.9	99.0	99.1	99.3	99.3	99.5	99.8
>= 0	21.2	90.1	93.9	96.3	97.2	97.5	98.3	98.6	98.7	98.7	98.8	98.8	98.9	99.0	99.1	99.3	99.4	99.5	100.0

TOTAL NO. OF OBS : 6721

# 1 - SURFACE WINDS

D13025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN	
		SPEED (KNOTS)												%	WIND SPEED
N	2.4	4.0	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	8.5	5.0	
NNE	1.6	3.8	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	7.8	5.8	
NE	1.9	3.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	6.8	4.8	
ENE	3.9	3.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	7.2	3.7	
E	7.8	7.1	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	16.6	4.0	
ESE	.9	1.3	2.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	5.3	7.7	
SE	.1	.9	1.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	3.2	8.7	
SSE	.3	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.7	
S	.1	.7	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	2.9	9.2	
SSW	.0	.6	1.2	.3	.3	.0	.1	.0	.0	.0	.0	.0	2.6	10.8	
SW	.0	.8	1.4	1.2	.2	.1	.0	.0	.0	.0	.0	.0	3.8	10.6	
WSW	.2	.9	1.0	.7	.6	.1	.0	.0	.0	.0	.0	.0	3.5	10.5	
W	.8	1.6	1.4	1.9	.3	.3	.0	.0	.0	.0	.0	.0	6.3	9.5	
WNW	.6	1.6	.7	1.1	.0	.1	.0	.0	.0	.0	.0	.0	4.0	7.9	
NW	1.3	2.0	1.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	6.3	7.0	
NNW	1.0	1.7	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	3.9	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
ALL	22.9	34.1	19.3	11.4	1.8	.7	.1	.0	.0	.0	.0	.0	100.0	5.8	

TOTAL NO. OF OBS : 898

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED					
N		3.2		4.1		1.7	.3	.0	.0	.0	.0	.0	.0	.0	9.4	4.9					
NNE		1.8		5.0		4.6	.7	.0	.0	.0	.0	.0	.0	.0	12.0	6.3					
NE		1.8		3.7		1.7	.3	.0	.0	.0	.0	.0	.0	.0	7.5	5.3					
ENE		3.2		4.9		.4	.1	.0	.0	.0	.0	.0	.0	.0	8.7	4.1					
E		7.5		6.7		1.0	.3	.0	.0	.0	.0	.0	.0	.0	15.5	4.0					
ESE		.4		1.0		1.4	1.0	.1	.0	.0	.0	.0	.0	.0	4.0	8.7					
SE		.2		1.0		1.0	1.3	.2	.0	.0	.0	.0	.0	.0	3.8	9.4					
SSE		.0		.6		.8	.2	.0	.0	.0	.0	.0	.0	.0	1.6	8.1					
S		.1		.4		1.1	.9	.0	.1	.0	.0	.0	.0	.0	2.7	9.8					
SSSW		.1		.4		1.4	.9	.1	.0	.0	.0	.0	.0	.0	3.0	9.8					
SW		.1		.2		1.1	.7	.2	.1	.0	.0	.0	.0	.0	2.4	10.7					
WSW		.2		.4		1.1	.7	.3	.2	.0	.0	.0	.0	.0	3.0	11.3					
W		.4		1.6		1.3	1.3	.3	.2	.0	.0	.0	.0	.0	5.2	9.4					
WNW		.3		1.0		1.2	1.0	.1	.2	.0	.0	.0	.0	.0	3.9	9.3					
NW		1.1		1.8		2.7	.9	.2	.0	.0	.0	.0	.0	.0	6.7	7.4					
NNW		.8		1.6		1.4	.4	.0	.0	.0	.0	.0	.0	.0	4.2	6.2					
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0					
ALL		21.4	34.4	24.1	11.1	1.7	.9	.0	.0	.0	.0	.0	.0	.0	100.0	6.2					

TOTAL NO. OF OBS : 898

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED	
		SPEED (KNOTS)																	
N	1.7	3.3						2.6	.7	.0	.0	.0	.0	.0	.0	.0	8.2	6.1	
NNE	2.3	5.3						4.6	1.1	.0	.0	.0	.0	.0	.0	.0	13.3	6.1	
NE	3.1	5.1						3.6	.0	.0	.1	.0	.0	.0	.0	.0	11.9	5.3	
ENE	3.3	4.8						1.7	.1	.0	.0	.0	.0	.0	.0	.0	9.9	4.4	
E	4.9	6.1						1.2	.1	.0	.0	.0	.0	.0	.0	.0	12.3	4.1	
ESE	1.0	.8						1.0	1.4	.1	.0	.0	.0	.0	.0	.0	4.3	7.9	
SE	.4	.6						.6	1.0	.3	.0	.0	.0	.0	.0	.0	2.9	9.3	
SSE	.2	.3						.4	.4	.1	.0	.0	.0	.0	.0	.0	1.6	8.8	
S	.3	.3						1.0	.2	.4	.0	.0	.0	.0	.0	.0	2.3	9.7	
SSW	.2	.2						1.1	1.1	.1	.0	.0	.0	.0	.0	.0	2.8	10.3	
SW	.1	.2						1.1	1.4	.2	.1	.0	.0	.0	.0	.0	3.2	11.6	
WSW	.2	.2						1.0	1.6	.3	.0	.0	.0	.0	.0	.0	3.3	11.2	
W	.6	1.0						.4	1.7	.2	.0	.0	.0	.0	.0	.0	3.9	9.1	
WNW	.6	1.2						1.1	1.3	.3	.1	.1	.0	.0	.0	.0	4.8	9.9	
NW	.9	2.4						1.2	.8	.0	.0	.0	.0	.0	.0	.0	5.3	6.4	
NNW	.4	2.1						1.1	.2	.0	.0	.0	.0	.0	.0	.0	3.9	5.8	
VAR	.0	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	
ALL	20.4	34.1						23.7	13.2	2.2	.3	.1	.0	.0	.0	.0	100.0	6.3	

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL		MEAN
DIR.		1	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND SPEED
N		1.8	2.4			1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.9
NNE		1.4	5.9			6.5	1.2	.1	.0	.0	.0	.0	.0	.0	.0	15.1	6.9
NE		2.0	5.6			3.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	12.1	6.2
ENE		4.0	5.6			1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.7	4.3
E		3.6	6.3			1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	11.3	4.6
ESE		.7	.8			.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	3.4	8.2
SE		.2	1.1			.9	1.3	.1	.0	.0	.0	.0	.0	.0	.0	3.7	9.5
SSE		.6	.3			.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	7.6
S		.2	.7			1.1	1.2	.2	.0	.0	.0	.0	.0	.0	.0	3.4	9.9
SSW		.3	.1			.9	.7	.3	.0	.0	.0	.0	.0	.0	.0	2.3	10.1
SW		.1	.6			.8	1.4	.4	.2	.0	.0	.0	.0	.0	.0	3.6	12.0
WSW		.0	.4			1.2	.8	.3	.3	.0	.0	.0	.0	.0	.0	3.1	11.9
W		.3	.7			1.4	1.3	.2	.2	.0	.0	.0	.0	.0	.0	4.0	9.1
WNW		.2	1.2			.8	.9	.1	.1	.0	.0	.0	.0	.0	.0	3.3	9.3
NW		.4	1.3			1.4	1.2	.2	.2	.0	.0	.0	.0	.0	.0	4.7	8.6
NNW		.8	2.4			.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.8
VAR		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0
ALL		16.7	35.5			24.6	13.9	2.3	.7	.0	.0	.0	.0	.0	.0	100.0	6.7

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.7	2.9	2.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	7.4
NNE	1.0	4.8	4.6	3.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	13.9	8.2
NE	.9	4.1	3.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	10.1	7.8
ENE	1.2	2.4	2.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.3
E	.6	2.3	1.4	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	6.1	8.7
ESE	.3	.7	1.4	1.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	4.8	11.4
SE	.2	.7	1.6	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.3	10.3
SSE	.4	1.1	.9	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	3.9	9.2
S	.4	1.4	1.9	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	5.0	9.2
SSW	.0	.3	1.4	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.6	11.1
SW	.4	.6	.7	1.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.9	10.7
WSW	.3	.2	1.2	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.4	10.7
W	1.0	1.8	3.2	2.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	8.9	9.2
WNW	.4	.8	2.1	2.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	6.1	10.1
NW	.2	.7	2.2	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.7
NNW	.7	.9	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0
ALL	8.9	25.7	31.8	24.0	5.0	.8	.0	.0	.0	.0	.0	.0	.0	100.0	8.6

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		SPEED (KNOTS)																TOTAL %		MEAN WIND SPEED	
		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56									
N		.9	3.6	3.2	1.6	.1	.0	.0	.0	.0	.0	.0	.0	9.3	7.5						
NNE	1.0	3.0	4.1	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	10.7	8.2						
NE	.7	1.3	2.6	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	6.1	8.6						
ENE	.4	.9	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.1						
E	.4	1.0	1.2	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.6	9.9						
ESE	.6	.6	1.8	2.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.3	10.5						
SE	.2	.3	1.2	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.9	10.9						
SSE	.2	.9	1.4	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	3.4	9.0						
S	.6	1.1	2.0	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	5.5	9.3						
SSW	.6	1.4	1.4	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.3						
SW	.2	.4	1.7	1.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	4.7	11.2						
WSW	.7	.8	1.7	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	4.4	8.5						
W	1.1	3.7	4.8	4.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	14.1	8.9						
WNW	.7	2.2	3.9	2.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	9.3	8.7						
NW	.2	1.2	2.7	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.7	8.9						
NNW	.8	.7	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.4						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
ALL	9.2	23.1	35.3	25.4	3.8	.8	.1	.0	.0	.0	.0	.0	.0	100.0	8.7						

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05

1 - SURFACE WINDS

013025 : ROTA, SPAIN LAT. : 36 38N LONG. : D6 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987 MONTH : DEC  
 CLASS : ALL WEATHER HOUR : 1900 LST  
 CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	3.4	2.6	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	4.5
NNE	2.1	5.3	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	5.3
NE	1.0	2.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.4
ENE	1.7	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.1
E	1.7	2.6	1.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.1
ESE	.8	1.9	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.1
SE	.6	.7	1.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	8.4
SSE	.3	.7	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.8
S	.7	1.0	.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.3
SSW	.7	.7	1.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.8
SW	.8	.3	1.4	1.1	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	10.4
WSW	.9	1.3	2.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
W	2.0	2.2	3.2	2.6	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.6	8.3
WNW	1.9	1.8	1.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.3
NW	2.6	2.4	1.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	5.6
NNW	2.8	2.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	3.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	.0
ALL	23.8	28.5	22.4	12.5	2.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.0

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

		SPEED (KNOTS)											TOTAL %		MEAN WIND SPEED		
16 PT.	1	-3	4	-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56				
DIR.	1	-3	4	-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56				
N	2.8		3.4		1.4	.3	.0	.0	.0	.0	.0	.0	.0	8.0	4.9		
NNE	1.2		3.0		1.9	.6	.1	.0	.0	.0	.0	.0	.0	6.8	6.2		
NE	2.1		2.2		.8	.1	.0	.0	.0	.0	.0	.0	.0	5.2	4.3		
ENE	3.7		2.3		.2	.0	.2	.0	.0	.0	.0	.0	.0	6.5	3.7		
E	5.0		6.6		1.7	.4	.0	.0	.0	.0	.0	.0	.0	13.7	4.5		
ESE	1.0		1.7		1.0	1.4	.1	.1	.0	.0	.0	.0	.0	5.3	7.6		
SE	.8		.9		1.1	.9	.1	.0	.0	.0	.0	.0	.0	3.8	7.7		
SSE	.1		.3		.7	.6	.0	.0	.0	.0	.0	.0	.0	1.7	8.7		
S	.3		.4		.8	1.0	.3	.0	.0	.0	.0	.0	.0	2.9	10.0		
SSW	.3		.9		.9	1.1	.2	.0	.0	.0	.0	.0	.0	3.4	9.3		
SW	.3		.4		1.3	1.4	.1	.1	.0	.0	.0	.0	.0	3.8	10.2		
WSW	.7		.7		2.1	1.2	.4	.2	.0	.0	.0	.0	.0	5.3	10.1		
W	.8		1.3		1.8	1.3	.4	.1	.0	.0	.0	.0	.0	5.8	9.0		
WNW	.4		1.7		1.3	.9	.1	.0	.1	.0	.0	.0	.0	4.6	8.1		
NW	1.1		1.7		1.4	1.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.8		
NNW	2.1		1.6		1.2	.3	.1	.0	.0	.0	.0	.0	.0	5.3	5.4		
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
ALL	22.8		29.1		19.7	12.7	2.3	.6	.1	.0	.0	.0	.0	100.0	5.8		

TOTAL NO. OF OBS : 899

NOTES :  
 \* = PERCENT < .05

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : ALL

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)											TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	2.1	3.3	2.0	.7	.0*	.0	.0	.0	.0	.0	.0	8.1	5.8
NNE	1.6	4.5	3.7	1.2	.1	.0	.0	.0	.0	.0	.0	11.1	6.7
NE	1.7	3.5	2.1	.6	.0*	.1	.0	.0	.0	.0	.0	8.0	6.1
ENE	2.7	3.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	6.8	4.5
E	3.9	4.8	1.3	.7	.1	.0	.0	.0	.0	.0	.0	10.9	5.0
ESE	.7	1.1	1.5	1.3	.2	.0*	.0	.0	.0	.0	.0	4.8	8.6
SE	.3	.8	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	3.7	9.3
SSE	.3	.6	.7	.5	.1	.0*	.0	.0	.0	.0	.0	2.2	8.4
S	.3	.8	1.2	.9	.3	.0*	.0	.0	.0	.0	.0	3.5	9.4
SSW	.3	.6	1.2	1.0	.3	.0*	.0*	.0	.0	.0	.0	3.4	10.0
SW	.3	.4	1.2	1.4	.3	.2	.0	.0	.0	.0	.0	3.7	10.9
WSW	.4	.6	1.5	1.0	.3	.1	.0	.0	.0	.0	.0	4.0	10.0
W	.9	1.7	2.2	2.0	.4	.1	.0*	.0	.0	.0	.0	7.4	9.0
WNW	.6	1.4	1.5	1.3	.2	.1	.0*	.0	.0	.0	.0	5.2	8.7
NW	1.0	1.7	1.9	1.1	.1	.0	.0	.0	.0	.0	.0	5.8	7.4
NNW	1.2	1.6	1.0	.4	.0*	.0	.0	.0	.0	.0	.0	4.3	5.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	.0
ALL	18.3	30.6	25.1	15.5	2.7	.6	.1	.0	.0	.0	.0	100.0	6.8

TOTAL NO. OF OBS : 7190

NOTES : \* = PERCENT < .05

# 1 - SURFACE WINDS

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : ANN  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND SPEED
N	1.2	2.0	1.1	1.1	.2	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	.0	4.5	5.4
NNE	1.0	2.0	1.7	.5	.1	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	.0	5.1	6.4
NE	1.1	1.8	1.1	.3	.0*	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	.0	4.4	5.8
ENE	1.8	2.0	.6	.1	.0*	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	.0	4.6	4.4
E	3.5	3.5	1.4	.9	.2	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	.0	9.4	5.4
ESE	.8	1.4	1.9	2.1	.5	.1	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	6.8	9.5
SE	.5	.9	1.5	1.7	.3	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	5.0	9.7
SSE	.5	.9	1.2	.9	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	3.6	8.3
S	.8	1.7	1.9	1.0	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	5.6	7.4
SSW	.6	1.2	1.5	.7	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	4.0	7.6
SW	.6	1.5	1.9	.9	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	5.0	7.9
WSW	.6	1.8	2.8	1.3	.2	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	6.7	8.2
W	1.2	3.4	5.6	3.0	.2	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	13.5	8.3
WNW	.9	1.8	2.4	1.3	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	6.5	7.8
NW	.9	1.6	1.6	.7	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	4.9	7.0
NNW	1.0	1.5	.9	.3	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	3.6	5.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	.0
ALL	17.1	29.1	29.0	15.9	2.0	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	100.0	6.8

TOTAL NO. OF OBS : 82411

NOTES :  
 \* = PERCENT < .05

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	10.7	63.2	64.2	65.4	65.8	65.8	65.9	66.1	66.1	66.1	66.4	66.4	66.6	66.6	66.6	66.7
>=20000	10.7	65.2	66.3	67.6	67.9	67.9	68.0	68.2	68.2	68.2	68.6	68.6	68.7	68.7	68.7	68.8
>=18000	10.7	65.2	66.3	67.6	67.9	67.9	68.0	68.2	68.2	68.2	68.6	68.6	68.7	68.7	68.7	68.8
>=16000	10.7	65.2	66.3	67.6	67.9	67.9	68.0	68.2	68.2	68.2	68.6	68.6	68.7	68.7	68.7	68.8
>=14000	10.7	65.4	66.6	67.8	68.1	68.1	68.2	68.5	68.5	68.5	68.8	68.8	68.9	68.9	68.9	69.2
>=12000	10.8	65.9	67.0	68.2	68.6	68.6	68.7	68.9	68.9	68.9	69.3	69.3	69.4	69.4	69.4	69.6
>=10000	11.2	66.9	68.0	69.3	69.6	69.6	69.7	69.9	69.9	69.9	70.3	70.3	70.4	70.4	70.4	70.6
>=9000	11.4	67.5	68.6	69.8	70.2	70.2	70.3	70.5	70.5	70.5	70.8	70.8	71.0	71.0	71.0	71.2
>=8000	12.0	70.5	71.8	73.2	73.6	73.6	73.8	74.0	74.0	74.0	74.4	74.4	74.5	74.5	74.5	74.7
>=7000	12.0	72.3	73.6	75.0	75.4	75.4	75.6	75.8	75.8	75.8	76.2	76.2	76.3	76.3	76.3	76.5
>=6000	12.2	73.1	74.4	75.8	76.2	76.2	76.4	76.6	76.6	76.6	76.9	76.9	77.1	77.1	77.1	77.3
>=5000	12.4	74.7	75.9	77.5	77.9	77.9	78.1	78.3	78.3	78.3	78.6	78.6	78.8	78.8	78.8	79.0
>=4500	12.5	75.6	76.8	78.4	78.8	78.8	79.0	79.2	79.2	79.2	79.5	79.5	79.7	79.7	79.7	79.9
>=4000	12.5	77.7	79.2	80.8	81.1	81.1	81.4	81.6	81.6	81.6	81.9	81.9	82.0	82.0	82.0	82.3
>=3500	12.9	79.5	81.0	82.6	82.9	82.9	83.2	83.4	83.4	83.4	83.7	83.7	83.8	83.8	83.8	84.1
>=3000	13.3	83.5	85.3	86.9	87.3	87.3	87.6	87.8	87.8	87.8	88.1	88.1	88.2	88.2	88.2	88.5
>=2500	13.4	85.6	87.6	89.3	89.7	89.7	89.9	90.2	90.2	90.2	90.5	90.5	90.6	90.6	90.6	90.8
>=2000	13.7	88.9	91.0	92.7	93.1	93.1	93.3	93.6	93.6	93.6	93.9	93.9	94.0	94.0	94.0	94.2
>=1800	13.7	89.2	91.3	93.0	93.4	93.4	93.7	93.9	93.9	93.9	94.2	94.2	94.4	94.4	94.4	94.6
>=1500	13.7	89.9	92.3	94.0	94.9	94.9	95.3	95.5	95.5	95.5	95.8	95.8	95.9	95.9	95.9	96.2
>=1200	13.7	90.6	93.1	94.9	96.0	96.0	96.2	96.5	96.7	96.7	97.1	97.1	97.2	97.2	97.2	97.4
>=1000	13.7	91.3	93.9	96.0	97.4	97.4	97.5	97.9	98.1	98.1	98.4	98.4	98.5	98.5	98.5	98.8
>=900	13.7	91.4	94.0	96.2	97.5	97.5	97.6	98.0	98.2	98.2	98.5	98.5	98.6	98.6	98.6	98.9
>=800	13.7	91.4	94.0	96.2	97.5	97.5	97.6	98.0	98.2	98.2	98.5	98.5	98.6	98.6	98.6	98.9
>=700	13.7	91.4	94.1	96.3	97.6	97.6	97.7	98.1	98.3	98.3	98.6	98.6	98.8	98.8	98.8	99.0
>=600	13.7	91.5	94.2	96.4	97.7	97.7	97.9	98.2	98.4	98.4	98.8	98.8	98.9	98.9	98.9	99.1
>=500	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.4
>=400	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.4
>=300	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.4
>=200	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.4
>=100	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	99.4
>=0	13.7	91.6	94.4	96.6	98.0	98.0	98.1	98.4	98.8	98.8	99.1	99.1	99.2	99.2	99.2	100.0

TOTAL NO. OF OBS : 885

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8
UNLIMIT	9.7	57.0	60.3	61.9	62.9	63.0	63.0	63.0	63.0	63.1	63.3	63.4	63.4	63.4	63.4	63.4
>=20000	9.7	58.7	62.0	63.7	64.7	64.8	64.8	64.8	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2
>=18000	9.8	58.9	62.2	63.9	64.9	65.0	65.0	65.0	65.1	65.1	65.4	65.5	65.5	65.5	65.5	65.5
>=16000	9.8	58.9	62.2	63.9	64.9	65.0	65.0	65.0	65.1	65.1	65.4	65.5	65.5	65.5	65.5	65.5
>=14000	9.8	59.1	62.3	64.0	65.0	65.1	65.1	65.1	65.2	65.2	65.5	65.6	65.6	65.6	65.6	65.6
>=12000	10.0	59.6	62.9	64.6	65.6	65.7	65.7	65.7	65.8	65.8	66.0	66.1	66.1	66.1	66.1	66.1
>=10000	10.5	61.5	64.9	66.6	67.6	67.7	67.7	67.7	67.8	67.8	68.1	68.2	68.2	68.2	68.2	68.2
>=9000	10.7	62.1	65.5	67.2	68.2	68.3	68.3	68.3	68.4	68.4	68.6	68.7	68.7	68.7	68.7	68.7
>=8000	11.0	66.3	69.9	71.5	72.6	72.7	72.7	72.7	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.1
>=7000	11.0	68.7	72.3	74.1	75.3	75.4	75.4	75.4	75.5	75.5	75.7	75.8	75.8	75.8	75.8	75.8
>=6000	11.0	69.6	73.2	75.0	76.3	76.4	76.4	76.4	76.5	76.5	76.7	76.8	76.8	76.8	76.8	76.8
>=5000	11.4	71.2	74.8	76.7	78.0	78.1	78.1	78.1	78.2	78.2	78.4	78.5	78.5	78.5	78.5	78.5
>=4500	11.6	72.3	75.9	77.8	79.1	79.2	79.2	79.2	79.3	79.3	79.5	79.6	79.6	79.6	79.6	79.6
>=4000	11.6	74.0	77.7	79.8	81.1	81.2	81.2	81.2	81.3	81.4	81.7	81.8	81.8	81.8	81.8	81.8
>=3500	12.1	75.5	79.3	81.4	82.8	82.9	82.9	82.9	83.0	83.1	83.4	83.5	83.5	83.5	83.5	83.5
>=3000	12.7	78.7	82.9	85.3	86.7	86.8	86.8	86.8	87.0	87.1	87.3	87.4	87.4	87.4	87.4	87.4
>=2500	12.8	80.5	84.9	87.4	89.0	89.2	89.2	89.2	89.3	89.4	89.7	89.8	89.8	89.8	89.8	89.8
>=2000	12.8	83.0	87.5	90.1	91.8	92.0	92.0	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2
>=1800	12.9	83.4	87.9	90.4	92.1	92.4	92.4	92.4	92.5	92.5	92.7	92.8	92.8	92.8	92.8	92.8
>=1500	13.0	84.3	88.9	91.7	93.4	93.6	93.6	93.6	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0
>=1200	13.0	84.9	89.7	92.5	94.3	94.5	94.5	94.5	94.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1
>=1000	13.0	85.4	90.7	93.6	95.6	95.8	95.8	95.8	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5
>=800	13.0	85.4	90.7	93.6	95.6	95.8	95.8	95.8	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5
>=700	13.0	85.6	90.9	93.8	96.1	96.3	96.3	96.3	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2
>=600	13.0	85.7	91.0	93.9	96.3	96.5	96.5	96.5	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4
>=500	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5
>=400	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.2	97.4	97.5	97.5	97.5	97.5	97.5	97.5
>=300	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6
>=200	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8
>=100	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8
>=0	13.0	85.8	91.1	94.0	96.4	96.6	96.6	96.6	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NO. OF OBS : 889



2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1/4	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.8	54.8	57.5	58.8	59.6	59.9	60.8	60.9	60.9	60.9	60.9	61.3	61.5	61.7	61.8	61.9
>=20000	8.8	57.3	60.1	61.3	62.1	62.5	63.4	63.5	63.5	63.5	63.5	63.9	64.0	64.3	64.4	64.5
>=18000	8.8	57.4	60.2	61.5	62.2	62.6	63.5	63.6	63.6	63.6	63.6	64.0	64.2	64.4	64.5	64.6
>=16000	8.8	57.4	60.2	61.5	62.2	62.6	63.5	63.6	63.6	63.6	63.6	64.0	64.2	64.4	64.5	64.6
>=14000	8.8	57.5	60.3	61.6	62.4	62.7	63.6	63.7	63.7	63.7	63.7	64.2	64.3	64.5	64.6	64.7
>=12000	8.9	58.0	60.8	62.0	62.8	63.1	64.0	64.2	64.2	64.2	64.2	64.6	64.7	64.9	65.1	65.2
>=10000	9.0	59.0	61.8	63.0	63.8	64.2	65.1	65.2	65.2	65.2	65.2	65.6	65.7	66.0	66.1	66.2
>=9000	9.1	59.7	62.5	63.8	64.6	64.9	65.8	66.0	66.0	66.0	66.0	66.4	66.5	66.7	66.9	67.0
>=8000	9.3	63.4	66.2	67.5	68.3	68.7	69.7	69.8	69.8	69.8	69.8	70.2	70.3	70.6	70.7	70.8
>=7000	9.3	65.8	68.7	70.0	70.8	71.1	72.1	72.2	72.2	72.2	72.2	72.7	72.8	73.0	73.1	73.3
>=6000	9.3	66.6	69.4	70.8	71.7	72.0	73.0	73.1	73.1	73.1	73.1	73.6	73.7	73.9	74.0	74.2
>=5000	9.6	67.9	70.8	72.2	73.1	73.5	74.5	74.6	74.6	74.6	74.6	75.1	75.2	75.4	75.5	75.6
>=4500	9.8	68.9	71.8	73.3	74.4	74.7	75.7	75.8	75.8	75.8	75.8	76.3	76.4	76.6	76.7	76.9
>=4000	10.0	71.0	74.2	75.7	76.9	77.2	78.2	78.3	78.3	78.3	78.3	78.8	78.9	79.1	79.2	79.3
>=3500	10.1	72.4	75.5	77.2	78.4	78.8	79.8	79.9	79.9	79.9	79.9	80.3	80.4	80.7	80.8	80.9
>=3000	10.6	75.5	79.1	80.9	82.4	82.7	83.8	83.9	83.9	83.9	83.9	84.4	84.5	84.7	84.8	84.9
>=2500	10.8	78.2	82.1	84.0	85.6	86.0	87.2	87.3	87.3	87.3	87.3	87.8	87.9	88.1	88.2	88.3
>=2000	11.2	80.2	84.8	86.9	88.4	88.9	90.1	90.2	90.2	90.2	90.2	90.7	90.8	91.0	91.1	91.2
>=1800	11.2	80.6	85.2	87.4	89.0	89.4	90.7	90.8	90.8	90.8	90.8	91.2	91.3	91.6	91.7	91.8
>=1500	11.5	82.0	87.0	89.2	90.8	91.2	92.6	92.7	92.7	92.7	92.7	93.1	93.3	93.5	93.6	93.7
>=1200	11.7	82.6	87.8	90.1	91.7	92.1	93.5	93.6	93.6	93.6	93.6	94.0	94.2	94.4	94.5	94.6
>=1000	11.7	83.1	88.4	90.9	92.7	93.1	94.7	94.8	94.8	94.8	94.8	95.3	95.4	95.6	95.7	95.8
>=900	11.7	83.1	88.5	91.0	92.8	93.3	94.8	94.9	94.9	94.9	94.9	95.4	95.5	95.7	95.8	96.0
>=800	11.7	83.3	89.0	91.5	93.6	94.0	95.6	95.7	95.7	95.7	95.7	96.2	96.3	96.5	96.6	96.7
>=700	11.7	83.5	89.2	91.7	93.8	94.3	95.8	96.0	96.0	96.0	96.0	96.4	96.5	96.7	97.0	97.1
>=600	11.7	83.5	89.3	91.8	94.0	94.5	96.1	96.2	96.2	96.2	96.2	96.6	96.7	97.0	97.2	97.3
>=500	11.7	83.5	89.4	92.0	94.4	94.8	96.5	96.6	96.6	96.6	96.6	97.1	97.2	97.4	97.6	97.8
>=400	11.7	83.5	89.4	92.0	94.4	94.8	96.5	96.6	96.6	96.6	96.6	97.1	97.2	97.4	97.6	97.8
>=300	11.7	83.5	89.4	92.1	94.5	94.9	96.6	96.7	96.7	96.7	96.7	97.2	97.3	97.5	97.9	98.0
>=200	11.7	83.7	89.7	92.4	94.7	95.2	96.9	97.0	97.0	97.0	97.0	97.4	97.5	97.8	98.1	98.2
>=100	11.7	83.7	89.7	92.4	94.7	95.2	96.9	97.0	97.0	97.0	97.0	97.4	97.5	97.9	98.2	98.3
>=0	11.7	83.7	89.7	92.4	94.7	95.2	96.9	97.0	97.0	97.0	97.0	97.4	97.5	97.9	98.2	98.4

TOTAL NO. OF OBS : 890

# 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	12.6	44.0	48.3	50.1	51.0	51.1	51.3	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	52.2	52.4	52.5	52.7
>=20000	12.6	47.6	52.2	54.2	55.1	55.2	55.6	55.9	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.6	56.7	56.8	57.1
>=18000	12.6	48.3	52.9	55.0	55.9	56.0	56.4	56.7	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.4	57.5	57.6	57.9
>=16000	12.6	48.5	53.0	55.1	56.0	56.1	56.5	56.8	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.5	57.6	57.7	58.0
>=14000	12.6	48.5	53.0	55.1	56.0	56.1	56.5	56.8	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.5	57.6	57.7	58.0
>=12000	12.7	49.1	53.7	55.9	56.8	56.9	57.3	57.6	57.7	58.0	58.0	58.0	58.0	58.0	58.0	58.3	58.4	58.6	58.8
>=10000	13.1	51.3	55.9	58.1	59.0	59.1	59.5	59.8	59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.5	60.7	60.8	61.1
>= 9000	13.2	51.9	56.5	59.0	59.9	60.0	60.5	60.8	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.5	61.8	61.9	62.1
>= 8000	14.0	56.0	61.0	63.7	64.6	64.9	65.4	65.8	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.5	66.8	66.9	67.2
>= 7000	14.1	58.1	63.0	66.0	67.0	67.3	67.9	68.2	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.9	69.2	69.3	69.6
>= 6000	14.1	58.7	63.6	66.7	67.7	68.0	68.5	68.9	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.6	69.9	70.0	70.3
>= 5000	14.4	59.5	64.4	67.6	68.7	68.9	69.5	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.5	70.8	71.0	71.2
>= 4500	14.7	61.0	66.1	69.3	70.4	70.6	71.2	71.5	71.6	71.9	71.9	71.9	71.9	71.9	71.9	72.2	72.6	72.7	72.9
>= 4000	14.9	63.6	69.3	72.7	73.8	74.1	74.7	75.1	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.9	76.2	76.3	76.6
>= 3500	15.3	65.3	71.2	74.6	75.8	76.0	76.7	77.0	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.8	78.2	78.3	78.5
>= 3000	15.6	69.2	75.3	79.1	80.4	80.6	81.3	81.6	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.4	82.8	82.9	83.1
>= 2500	16.3	72.3	78.8	82.7	84.0	84.3	85.0	85.4	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.3	86.7	86.8	87.0
>= 2000	16.9	74.6	81.4	85.6	87.0	87.3	88.1	88.6	88.7	89.1	89.2	89.2	89.2	89.2	89.2	89.6	89.9	90.0	90.4
>= 1800	17.0	74.7	81.5	85.8	87.1	87.4	88.2	88.7	88.9	89.2	89.3	89.3	89.3	89.3	89.3	89.7	90.0	90.1	90.5
>= 1500	17.2	76.7	83.6	88.1	89.6	89.9	90.8	91.4	91.5	92.0	92.1	92.1	92.1	92.1	92.1	92.4	92.8	92.9	93.2
>= 1200	17.2	77.4	84.3	88.7	90.4	90.7	91.6	92.2	92.3	92.8	92.9	92.9	92.9	92.9	92.9	93.2	93.6	93.7	94.0
>= 1000	17.3	78.8	85.8	90.4	92.1	92.4	93.5	94.1	94.3	94.8	94.9	94.9	94.9	94.9	94.9	95.3	95.6	95.8	96.3
>= 900	17.3	78.8	85.8	90.4	92.2	92.5	93.6	94.3	94.4	94.9	95.1	95.1	95.1	95.1	95.1	95.4	95.8	95.9	96.4
>= 800	17.3	78.8	85.8	90.4	92.3	92.7	93.8	94.5	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.8	96.1	96.2	96.8
>= 700	17.3	78.8	85.8	90.5	92.5	92.9	94.0	94.7	94.9	95.5	95.5	95.5	95.5	95.5	95.5	96.0	96.3	96.4	97.0
>= 600	17.3	79.0	86.0	90.7	92.8	93.2	94.4	95.2	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.6	96.9	97.0	97.7
>= 500	17.3	79.1	86.2	91.0	93.2	93.7	94.8	95.6	95.9	96.7	96.7	96.7	96.7	96.7	96.7	97.1	97.5	97.6	98.4
>= 400	17.3	79.1	86.3	91.2	93.3	93.8	94.9	95.8	96.0	96.8	96.8	96.8	96.8	96.8	96.8	97.2	97.6	97.7	98.5
>= 300	17.3	79.1	86.3	91.3	93.5	93.9	95.1	95.9	96.1	96.9	96.9	96.9	96.9	96.9	96.9	97.4	97.7	97.8	98.9
>= 200	17.3	79.1	86.3	91.3	93.5	93.9	95.1	96.0	96.2	97.1	97.1	97.1	97.1	97.1	97.1	97.6	97.9	98.0	99.3
>= 100	17.3	79.1	86.3	91.3	93.5	93.9	95.1	96.0	96.2	97.2	97.2	97.2	97.2	97.2	97.2	97.7	98.0	98.2	99.8
>= 0	17.3	79.1	86.3	91.3	93.5	93.9	95.1	96.0	96.2	97.2	97.2	97.2	97.2	97.2	97.2	97.7	98.0	98.3	100.0

TOTAL NO. OF OBS : 871

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.6	52.0	53.4	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.8	53.8	53.8	53.8
>=20000	16.9	55.9	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7
>=18000	16.9	56.3	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.2	58.2	58.2	58.2
>=16000	16.9	56.3	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.2	58.2	58.2	58.2
>=14000	16.9	56.3	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.2	58.2	58.2	58.2
>=12000	17.1	57.4	58.7	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3
>=10000	17.7	59.6	61.0	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6
>= 9000	17.9	60.4	61.9	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.5
>= 8000	18.7	65.2	66.8	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.4
>= 7000	19.0	68.8	70.5	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.1	71.1
>= 6000	19.4	69.6	71.3	71.5	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2
>= 5000	19.6	70.2	71.9	72.2	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.9	72.9	72.9	72.9
>= 4500	19.8	70.8	72.5	72.7	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4
>= 4000	20.2	73.2	74.9	75.3	75.7	75.8	75.9	75.9	75.9	75.9	76.1	76.1	76.2	76.2	76.2	76.2
>= 3500	20.5	74.8	76.5	77.0	77.4	77.5	77.7	77.7	77.7	77.7	77.8	77.8	77.9	77.9	77.9	77.9
>= 3000	21.6	79.7	81.8	82.3	82.8	82.9	83.1	83.1	83.1	83.1	83.2	83.2	83.4	83.4	83.4	83.4
>= 2500	22.2	83.5	85.9	86.7	87.1	87.2	87.7	87.7	87.7	87.7	87.8	87.8	87.9	87.9	87.9	87.9
>= 2000	23.1	86.7	89.2	90.0	90.8	90.9	91.4	91.6	91.6	91.6	91.8	91.8	91.9	91.9	91.9	91.9
>= 1800	23.1	87.0	89.5	90.3	91.1	91.2	91.8	91.9	91.9	92.1	92.1	92.1	92.2	92.2	92.2	92.2
>= 1500	23.5	88.6	91.6	92.7	93.6	93.7	94.4	94.5	94.5	94.8	94.8	94.8	94.9	94.9	94.9	94.9
>= 1200	23.5	89.2	92.2	93.6	94.6	94.9	95.6	95.7	95.7	95.9	95.9	95.9	96.0	96.0	96.0	96.0
>= 1000	23.6	89.9	92.9	94.5	95.7	96.0	96.7	96.9	96.9	97.4	97.4	97.4	97.6	97.6	97.6	97.6
>= 900	23.6	89.9	92.9	94.5	95.7	96.0	96.7	96.9	96.9	97.4	97.4	97.4	97.6	97.6	97.6	97.6
>= 800	23.6	90.1	93.4	95.0	96.2	96.6	97.4	97.6	97.6	98.3	98.3	98.3	98.5	98.5	98.5	98.5
>= 700	23.6	90.2	93.5	95.1	96.4	96.7	97.5	97.8	97.8	98.5	98.5	98.5	98.7	98.7	98.7	98.7
>= 600	23.6	90.2	93.5	95.2	96.6	96.9	97.9	98.3	98.3	99.0	99.0	99.0	99.2	99.2	99.2	99.2
>= 500	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.5	99.5	99.5	99.8	99.8	99.8	99.8
>= 400	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.5	99.5	99.5	99.8	99.8	99.8	99.8
>= 300	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.5	99.5	99.5	99.8	99.8	99.8	99.8
>= 200	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9
>= 100	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9
>= 0	23.6	90.3	93.6	95.3	96.9	97.3	98.4	98.7	98.7	99.7	99.7	99.7	99.9	99.9	99.9	100.0

TOTAL NO. OF OBS : 877

2 - CEILING VS VISIBILITY

013025 : ROTTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	18.2	53.5	53.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
>=20000	18.4	58.7	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>=18000	18.4	59.3	59.5	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
>=16000	18.5	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
>=14000	18.7	59.7	59.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
>=12000	19.1	60.3	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
>=10000	20.1	62.6	63.0	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
>= 9000	20.3	63.7	64.0	64.3	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
>= 8000	20.8	67.3	67.9	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
>= 7000	21.1	69.7	70.3	70.9	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
>= 6000	21.4	69.9	70.5	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
>= 5000	21.6	70.7	71.3	72.0	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
>= 4500	22.2	71.5	72.1	72.8	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
>= 4000	22.4	74.1	75.3	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
>= 3500	23.1	75.5	76.8	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>= 3000	23.9	80.3	81.8	82.6	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
>= 2500	24.3	82.9	84.7	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
>= 2000	25.5	87.0	89.0	90.4	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
>= 1800	25.6	87.9	89.9	91.3	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
>= 1500	26.4	90.4	92.8	94.3	94.5	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
>= 1200	26.4	91.1	93.8	95.3	95.7	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>= 1000	26.4	91.8	94.6	96.3	96.9	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
>= 900	26.4	91.8	94.6	96.3	97.0	97.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>= 800	26.4	92.1	95.1	97.0	97.8	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 700	26.4	92.2	95.2	97.1	97.9	98.3	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
>= 600	26.4	92.3	95.3	97.3	98.3	98.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>= 500	26.4	92.3	95.3	97.4	98.4	98.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>= 400	26.4	92.5	95.4	97.5	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 300	26.4	92.5	95.4	97.5	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	26.4	92.5	95.4	97.5	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 100	26.4	92.5	95.4	97.5	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 0	26.4	92.5	95.4	97.5	98.5	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 875

## 2 - CEILING VS VISIBILITY

013025 : ROTIA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	13.3	53.2	53.8	54.6	54.7	54.7	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
>=20000	13.4	57.0	57.7	58.5	58.6	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8
>=18000	13.4	57.4	58.1	58.9	59.0	59.0	59.0	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4
>=16000	13.5	57.7	58.4	59.2	59.3	59.3	59.3	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6
>=14000	13.5	57.7	58.4	59.2	59.3	59.3	59.3	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6
>=12000	14.0	58.4	59.2	60.0	60.1	60.1	60.1	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4
>=10000	14.1	60.3	61.1	61.9	62.0	62.0	62.0	62.2	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4
>=9000	14.3	60.9	61.7	62.5	62.6	62.6	62.6	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9
>=8000	15.2	65.3	66.1	67.0	67.2	67.2	67.2	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>=7000	15.8	69.1	70.1	71.2	71.3	71.3	71.3	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>=6000	15.8	69.1	70.1	71.2	71.3	71.3	71.3	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>=5000	15.9	70.3	71.4	72.5	72.7	72.7	72.7	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0
>=4500	16.0	70.8	72.0	73.1	73.2	73.2	73.2	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6
>=4000	16.5	73.5	74.7	76.0	76.1	76.1	76.1	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5
>=3500	16.7	75.1	76.3	77.6	77.7	77.7	77.7	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1
>=3000	17.3	80.9	82.4	83.9	84.0	84.0	84.1	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>=2500	17.8	83.3	85.0	86.5	86.7	86.7	86.7	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>=2000	18.3	86.2	88.0	89.6	89.9	89.9	90.0	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.6
>=1800	18.3	86.7	88.7	90.3	90.6	90.7	90.8	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.3	91.3
>=1500	18.4	89.4	91.4	93.1	93.5	93.6	93.8	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.3	94.3
>=1200	18.8	90.3	92.3	94.4	94.7	95.0	95.2	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.7	95.7
>=1000	18.9	91.3	93.5	95.9	96.7	97.0	97.3	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.8	97.8
>=900	18.9	91.3	93.5	95.9	96.7	97.0	97.3	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.8	97.8
>=800	18.9	91.6	93.8	96.3	97.4	97.7	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.9	98.9
>=700	18.9	91.6	93.8	96.3	97.4	97.7	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.9	98.9
>=600	18.9	91.6	93.9	96.5	97.5	97.8	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	99.1	99.1
>=500	18.9	91.6	93.9	96.6	97.6	97.9	98.5	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.4	99.4
>=400	18.9	91.6	93.9	96.6	97.6	97.9	98.5	98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.5	99.5
>=300	18.9	91.6	93.9	96.6	97.6	97.9	98.5	98.7	98.7	99.2	99.2	99.2	99.2	99.2	99.5	99.5
>=200	18.9	91.6	93.9	96.6	97.6	98.1	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.7	99.7
>=100	18.9	91.6	93.9	96.6	97.6	98.1	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.7	99.7
>= 0	18.9	91.6	93.9	96.6	97.6	98.1	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.7	99.7

TOTAL NO. OF OBS : 874

## 2 - CEILING VS VISIBILITY

013025 : ROYA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	11.8	61.0	61.7	62.0	62.2	62.2	62.3	62.4	62.4	62.4	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.9	
>=20000	11.8	63.0	63.7	64.0	64.3	64.3	64.4	64.5	64.5	64.5	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.9	
>=18000	11.8	63.6	64.3	64.6	64.8	64.8	64.9	65.0	65.0	65.0	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.5	
>=16000	11.8	63.6	64.3	64.6	64.8	64.8	64.9	65.0	65.0	65.0	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.5	
>=14000	11.9	63.9	64.6	64.9	65.2	65.2	65.3	65.4	65.4	65.4	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.8	
>=12000	12.0	64.6	65.4	65.7	66.0	66.0	66.1	66.2	66.2	66.2	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.6	
>=10000	12.6	66.0	66.7	67.1	67.3	67.3	67.4	67.5	67.5	67.5	67.8	67.9	67.9	67.9	67.9	67.9	67.9	68.0	
>= 9000	12.8	66.7	67.5	67.9	68.1	68.1	68.2	68.3	68.3	68.3	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.8	
>= 8000	13.2	71.3	72.2	72.6	72.9	72.9	73.1	73.2	73.2	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.6	
>= 7000	13.3	73.6	74.8	75.3	75.6	75.6	75.8	75.9	75.9	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.4	
>= 6000	13.7	74.2	75.3	76.0	76.2	76.2	76.5	76.6	76.6	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	77.0	
>= 5000	14.1	75.5	76.6	77.4	77.6	77.6	77.8	77.9	77.9	77.9	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.4	
>= 4500	14.3	77.0	78.2	79.0	79.2	79.2	79.4	79.5	79.5	79.5	79.8	79.9	79.9	79.9	79.9	79.9	79.9	80.0	
>= 4000	14.5	79.0	80.1	80.9	81.1	81.1	81.3	81.4	81.4	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.9	
>= 3500	14.7	79.9	81.4	82.2	82.5	82.5	82.7	82.8	82.8	82.8	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.3	
>= 3000	15.3	84.4	86.2	87.1	87.4	87.4	87.7	87.8	87.8	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.2	
>= 2500	15.5	86.4	88.5	89.6	89.9	89.9	90.2	90.3	90.3	90.3	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.7	
>= 2000	15.6	88.6	91.1	92.4	93.0	93.0	93.2	93.3	93.3	93.3	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.8	
>= 1800	15.6	88.9	91.5	93.0	93.6	93.6	93.9	94.0	94.0	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.5	
>= 1500	15.6	90.2	93.0	94.7	95.2	95.2	95.6	95.7	95.7	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.2	
>= 1200	15.6	90.6	93.6	95.2	95.8	95.8	96.3	96.4	96.4	96.4	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.8	
>= 1000	15.6	90.8	94.0	95.7	96.5	96.5	96.9	97.1	97.1	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.5	
>= 900	15.6	91.3	94.5	96.2	96.9	96.9	97.4	97.5	97.5	97.5	97.7	97.9	97.9	97.9	97.9	97.9	97.9	98.0	
>= 800	15.6	91.3	94.7	96.5	97.4	97.4	98.1	98.3	98.3	98.3	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.9	
>= 700	15.6	91.4	94.8	96.7	97.6	97.6	98.3	98.5	98.5	98.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1	
>= 600	15.6	91.5	94.9	96.9	97.9	97.9	98.5	98.8	98.8	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	
>= 500	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	
>= 400	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	
>= 300	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	
>= 200	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	
>= 100	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.9	
>= 0	15.6	91.7	95.1	97.2	98.2	98.2	99.0	99.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	100.0	

TOTAL NO. OF OBS : 884

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : DEC  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	12.7	54.9	56.6	57.6	58.0	58.1	58.3	58.4	58.4	58.4	58.6	58.6	58.6	58.7	58.8	58.8
>=20000	12.8	58.0	59.8	60.8	61.2	61.3	61.5	61.6	61.6	61.6	61.8	61.9	61.9	62.0	62.0	62.1
>=18000	12.8	58.3	60.2	61.2	61.6	61.7	61.9	62.0	62.0	62.0	62.2	62.3	62.3	62.4	62.4	62.5
>=16000	12.8	58.4	60.2	61.2	61.7	61.7	61.9	62.1	62.1	62.1	62.3	62.3	62.3	62.4	62.5	62.5
>=14000	12.8	58.5	60.4	61.3	61.8	61.9	62.1	62.2	62.2	62.2	62.4	62.5	62.5	62.6	62.7	62.9
>=12000	13.1	59.2	61.1	62.1	62.5	62.6	62.8	62.9	62.9	62.9	63.1	63.2	63.2	63.3	63.4	63.6
>=10000	13.5	60.9	62.8	63.8	64.3	64.4	64.6	64.7	64.7	64.7	64.9	65.0	65.0	65.1	65.2	65.4
>=9000	13.7	61.6	63.5	64.6	65.1	65.1	65.3	65.5	65.5	65.5	65.7	65.7	65.7	65.8	65.9	66.2
>=8000	14.3	65.7	67.7	68.9	69.3	69.4	69.7	69.8	69.9	70.0	70.0	70.1	70.1	70.2	70.3	70.5
>=7000	14.4	68.3	70.4	71.7	72.2	72.3	72.5	72.7	72.7	72.9	73.0	73.0	73.0	73.1	73.2	73.4
>=6000	14.6	68.9	71.0	72.3	72.8	72.9	73.2	73.3	73.4	73.6	73.6	73.6	73.6	73.7	73.8	74.1
>=5000	14.8	70.0	72.2	73.5	74.1	74.2	74.5	74.6	74.6	74.8	74.9	74.9	74.9	75.0	75.1	75.3
>=4500	15.1	71.0	73.2	74.6	75.2	75.3	75.5	75.7	75.7	75.9	76.0	76.0	76.0	76.1	76.2	76.4
>=4000	15.3	73.3	75.7	77.2	77.8	77.9	78.2	78.3	78.4	78.6	78.6	78.6	78.6	78.7	78.8	79.1
>=3500	15.7	74.8	77.3	78.8	79.4	79.5	79.8	80.0	80.0	80.2	80.3	80.3	80.3	80.4	80.5	80.7
>=3000	16.3	79.0	81.9	83.5	84.2	84.3	84.7	84.8	84.8	85.1	85.1	85.1	85.1	85.2	85.3	85.6
>=2500	16.6	81.6	84.7	86.5	87.3	87.4	87.8	87.9	87.9	88.2	88.2	88.2	88.2	88.4	88.5	88.7
>=2000	17.1	84.4	87.8	89.7	90.6	90.7	91.2	91.3	91.4	91.6	91.7	91.7	91.7	91.8	91.9	92.2
>=1800	17.2	84.8	88.2	90.2	91.1	91.2	91.7	91.9	91.9	92.1	92.2	92.2	92.2	92.3	92.4	92.7
>=1500	17.4	86.4	90.1	92.2	93.2	93.4	93.9	94.1	94.1	94.4	94.4	94.4	94.4	94.6	94.7	94.9
>=1200	17.5	87.1	90.8	93.1	94.2	94.4	94.9	95.1	95.2	95.4	95.5	95.5	95.5	95.6	95.7	96.0
>=1000	17.5	87.8	91.7	94.2	95.4	95.7	96.4	96.6	96.6	96.9	97.0	97.0	97.0	97.2	97.3	97.6
>=900	17.5	87.9	91.8	94.3	95.6	95.8	96.5	96.7	96.7	97.1	97.1	97.1	97.1	97.3	97.4	97.7
>=800	17.5	88.0	92.1	94.6	96.0	96.3	97.1	97.3	97.4	97.7	97.8	97.8	97.8	98.0	98.1	98.4
>=700	17.5	88.1	92.2	94.7	96.2	96.5	97.2	97.5	97.5	97.9	98.0	98.0	98.0	98.1	98.2	98.6
>=600	17.5	88.2	92.3	94.8	96.4	96.7	97.5	97.8	97.8	98.2	98.3	98.3	98.3	98.4	98.5	98.9
>=500	17.5	88.3	92.4	95.0	96.6	96.9	97.8	98.1	98.1	98.6	98.6	98.6	98.6	98.8	98.9	99.2
>=400	17.5	88.3	92.4	95.0	96.7	96.9	97.8	98.1	98.1	98.6	98.6	98.7	98.7	98.9	99.0	99.3
>=300	17.5	88.3	92.4	95.1	96.7	97.0	97.8	98.1	98.2	98.7	98.8	98.8	98.8	98.9	99.1	99.4
>=200	17.5	88.3	92.4	95.1	96.7	97.0	97.9	98.2	98.3	98.8	98.9	98.9	98.9	99.1	99.2	99.6
>=100	17.5	88.3	92.4	95.1	96.7	97.0	97.9	98.2	98.3	98.8	98.9	98.9	98.9	99.1	99.2	99.7
>=0	17.5	88.3	92.4	95.1	96.7	97.0	97.9	98.2	98.3	98.8	98.9	98.9	98.9	99.1	99.2	100.0

TOTAL NO. OF OBS : 7045

## 2 - CEILING VS VISIBILITY

013025 : ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : ANN  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	19.5	66.1	68.2	69.3	69.6	69.7	69.9	69.9	69.9	70.0	70.1	70.1	70.0	70.1	70.1	70.1	70.2	70.3
>=20000	19.6	69.0	71.1	72.3	72.9	72.8	73.0	73.0	73.0	73.1	73.2	73.2	73.1	73.2	73.2	73.2	73.3	73.4
>=18000	19.6	69.5	71.7	72.8	73.2	73.3	73.5	73.5	73.5	73.6	73.7	73.7	73.6	73.7	73.7	73.8	73.8	74.0
>=16000	19.6	69.5	71.7	72.9	73.3	73.4	73.5	73.6	73.6	73.7	73.8	73.8	73.7	73.7	73.8	73.8	73.9	74.0
>=14000	19.7	69.7	71.9	73.1	73.5	73.6	73.7	73.8	73.8	73.9	74.0	74.0	73.9	74.0	74.0	74.1	74.2	74.2
>=12000	19.9	70.3	72.5	73.7	74.1	74.2	74.4	74.5	74.5	74.6	74.7	74.7	74.6	74.7	74.7	74.7	74.7	74.9
>=10000	20.3	71.8	74.1	75.3	75.7	75.8	75.9	76.0	76.0	76.1	76.2	76.2	76.1	76.2	76.2	76.3	76.4	76.4
>=9000	20.5	72.6	74.9	76.2	76.5	76.6	76.8	76.9	76.9	77.0	77.1	77.1	77.0	77.1	77.1	77.2	77.3	77.3
>=8000	21.1	75.8	78.2	79.5	79.9	80.0	80.1	80.2	80.3	80.3	80.4	80.4	80.4	80.5	80.5	80.5	80.7	80.7
>=7000	21.4	77.4	79.9	81.3	81.7	81.8	82.0	82.1	82.1	82.2	82.2	82.3	82.2	82.3	82.3	82.4	82.5	82.5
>=6000	21.4	77.8	80.3	81.6	82.0	82.2	82.3	82.4	82.4	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.9	82.9
>=5000	21.6	78.6	81.1	82.5	82.9	83.0	83.2	83.3	83.3	83.4	83.5	83.5	83.4	83.5	83.5	83.6	83.8	83.8
>=4500	21.7	79.1	81.6	83.0	83.5	83.6	83.8	83.8	83.9	84.0	84.0	84.1	84.0	84.1	84.1	84.1	84.3	84.3
>=4000	22.0	80.5	83.2	84.6	85.0	85.1	85.3	85.4	85.5	85.6	85.6	85.7	85.6	85.7	85.7	85.7	85.9	85.9
>=3500	22.2	81.4	84.1	85.5	86.0	86.1	86.3	86.4	86.4	86.5	86.6	86.6	86.5	86.6	86.7	86.7	86.9	86.9
>=3000	22.5	83.7	86.5	88.0	88.5	88.6	88.8	88.9	88.9	89.0	89.1	89.2	89.1	89.2	89.2	89.2	89.4	89.4
>=2500	22.9	85.5	88.4	90.0	90.5	90.7	90.9	91.0	91.0	91.1	91.2	91.2	91.2	91.3	91.3	91.3	91.5	91.5
>=2000	23.3	87.5	90.6	92.3	92.9	93.0	93.3	93.4	93.4	93.5	93.5	93.6	93.5	93.6	93.6	93.7	93.9	93.9
>=1800	23.4	87.7	90.9	92.6	93.2	93.3	93.6	93.7	93.7	93.8	93.9	94.0	93.9	94.0	94.0	94.0	94.2	94.2
>=1500	23.7	89.2	92.5	94.4	95.1	95.2	95.5	95.6	95.6	95.8	95.8	95.9	95.8	95.9	95.9	96.0	96.1	96.1
>=1200	23.8	89.7	93.2	95.2	95.8	96.0	96.3	96.4	96.4	96.6	96.6	96.7	96.6	96.7	96.7	96.8	96.8	96.9
>=1000	23.9	90.3	93.9	96.0	96.7	96.9	97.3	97.4	97.4	97.6	97.6	97.7	97.6	97.7	97.8	97.8	98.0	98.0
>=900	23.9	90.4	94.0	96.2	96.9	97.1	97.4	97.6	97.6	97.8	97.8	97.9	97.8	97.9	97.9	98.0	98.1	98.1
>=800	23.9	90.6	94.3	96.5	97.3	97.5	97.9	98.1	98.1	98.3	98.3	98.4	98.3	98.4	98.4	98.5	98.7	98.7
>=700	23.9	90.7	94.5	96.7	97.5	97.7	98.1	98.3	98.3	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.9	98.9
>=600	23.9	90.8	94.5	96.8	97.6	97.8	98.3	98.5	98.5	98.7	98.7	98.8	98.8	98.9	98.9	99.0	99.1	99.1
>=500	23.9	90.8	94.6	96.9	97.8	98.0	98.5	98.7	98.7	98.9	98.9	99.0	99.0	99.1	99.1	99.2	99.4	99.4
>=400	23.9	90.8	94.6	96.9	97.8	98.1	98.5	98.8	98.8	99.0	99.1	99.2	99.1	99.2	99.2	99.3	99.5	99.5
>=300	23.9	90.8	94.7	97.0	97.9	98.1	98.6	98.8	98.9	99.1	99.2	99.3	99.2	99.3	99.3	99.4	99.6	99.6
>=200	23.9	90.9	94.7	97.0	97.9	98.1	98.6	98.9	98.9	99.2	99.3	99.4	99.2	99.3	99.4	99.5	99.7	99.7
>=100	23.9	90.9	94.7	97.0	97.9	98.1	98.6	98.9	98.9	99.2	99.3	99.4	99.3	99.4	99.5	99.6	99.9	99.9
>=0	23.9	90.9	94.7	97.0	97.9	98.1	98.6	98.9	98.9	99.2	99.3	99.4	99.3	99.4	99.5	99.6	100.0	100.0

TOTAL NO. OF OBS : 80328



3 - PSYCHROMETRIC SUMMARY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL		TOTAL OBS
																		0.8-7 W.B.	DRY BULB	WET BULB
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	0
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4	0
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	15	0
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	24	1
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	81	1
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276	276	7
>= 61	.4	1.3	1.6	1.9	1.3	.6	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	505	505	80
>= 59	.6	2.6	2.6	2.2	1.5	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	697	697	260
>= 57	.4	3.3	3.7	2.6	1.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	833	833	479
>= 55	.6	2.9	3.5	2.7	1.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	778	778	711
>= 53	.7	3.4	3.3	2.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	715	715	846
>= 51	.7	3.1	2.6	1.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	592	592	885
>= 49	.9	3.5	2.2	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	540	540	831
>= 47	.9	3.3	1.3	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	461	461	776
>= 45	1.1	3.2	1.6	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	465	465	580
>= 43	.9	2.5	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350	350	455
>= 41	.7	1.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	229	372
>= 39	.5	1.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	174	267
>= 37	.2	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	88	194
>= 35	.1	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	74	88
>= 33	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	12	73
>= 31	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	12	35
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	16
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	2
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	41
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	21
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	15
>= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	6
>= 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
>= 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	2
TOTAL	3.7	33.7	26.8	17.1	8.4	3.6	1.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	6927	6943	6928

ELEMENT(X)	SUM X	SUM X**2	MEAN STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL
28 - REL HUM	545301.	44383019.	78.8 14.411	6924	<=0 F	<=32 F	>=67 F	>=73 F	>=93 F
15 - DRY BULB	367124.	19749872.	52.9 6.973	6943	.0	1.4	4.7	.1	.0
16 - WET BULB	342006.	17156134.	49.4 6.275	6928	1.7	7.4	.1	.0	.0
17 - DEW PT.	318597.	15025055.	46.0 7.346	6928	.0	33.7	.0	.0	.0

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL		
																		D.B./ W.B.	DRY BULB	WET BULB
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	2	2	0
>= 75	.0	.0	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	2	2	0
>= 73	.0	.0	.0	.0	.0	.0	.0*	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	7	7	0
>= 71	.0	.0	.0	.0	.0*	.0	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	14	14	0
>= 69	.0	.0	.0	.0*	.0	.0	.0*	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	49	49	0
>= 67	.0	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	59	1
>= 65	.0	.0*	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	150	150	2
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	344	344	14
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	489	489	92
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	745	745	312
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	801	801	565
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	860	860	719
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	675	675	878
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	567	567	923
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	423	747
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	357	777
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	318	318	509
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	199	199	325
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	120	231
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	85	178
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	36	105
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	16	48
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	25
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	10
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	55
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	51
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	13
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	4
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	7
>= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	3
TOTAL	5.0	29.7	28.1	19.0	9.9	5.2	2.1	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	6320	6320	6320

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL
28 - REL HUM	481589.	38036783.	76.2	14.559	6320	<=0 F	<=32 F	>=67 F	>=73 F	>=93 F
15 - DRY BULB	345842.	19189550.	54.7	6.469	6320	.0	.0	.0	1.2	.0
16 - WET BULB	320086.	16417790.	50.6	5.717	6320	.0	.0	1.1	.0	.0
17 - DEW PT.	296125.	14177887.	46.9	6.923	6320	.0	23.0	.0	.0	.0

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAR  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	2 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)												TOTAL			TOTAL OBS				
					7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	D.B./ W.B.	DRY BULB	WET BULB	DEW PT.			
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	3.2	23.0	24.3	19.6	13.1	7.9	4.3	2.3	1.4	.5	.2	.1	.0	.0	.0	.0	.0	6944	6944	6944	6943	6943	6944	6943

ELEMENT(X)	SUM X	SUM X**2	MEAN STD DEV	# ORS	40 - MEAN NO. OF HOURS WITH TEMP.						TOTAL
					<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F	
28 - REL HUM	498486.	37635274.	71.8 16.326	6944	.0	.0	51.7	12.2	.4	.0	744
15 - DRY BULB	395829.	22874573.	57.0 6.694	6944	.0	.0	1.0	.0	.0	.0	744
16 - WET BULB	350658.	18834788.	51.8 5.175	6944	.0	.0	.0	.0	.0	.0	744
17 - DEW PT.	327548.	15739192.	47.2 6.425	6943	.0	13.5	.3	.0	.0	.0	744

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : APR  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL		
																		W.B.	D.B./	DEW
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	1	1	0
>= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*	.0	.0	.0	.0	.0	4	4	0
>= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0*	.0*	.0	.0	.0	.0	11	11	0
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0*	.0	.0	.0	.0	25	25	0
>= 79	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0*	.0*	.0	.0	.0	.0	39	39	0
>= 77	.0	.0	.0	.0	.0	.0	.0*	.1	.1	.2	.2	.0*	.0*	.0	.0	.0	.0	57	57	0
>= 75	.0	.0	.0	.0	.0	.0	.1	.3	.3	.3	.3	.0*	.0	.0	.0	.0	.0	95	95	0
>= 73	.0	.0	.0*	.0	.0	.1	.3	.4	.4	.3	.1	.0*	.0	.0	.0	.0	.0	115	115	0
>= 71	.0	.0	.0	.0*	.3	.3	.6	.8	.4	.2	.2	.0	.0	.0	.0	.0	.0	196	196	0
>= 69	.0	.0	.0	.1	.7	.4	.8	.7	.3	.2	.0*	.0	.0	.0	.0	.0	.0	225	225	1
>= 67	.0	.0*	.1	.8	1.8	1.8	1.4	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	329	329	3
>= 65	.0	.0*	.7	1.9	2.1	2.1	1.4	1.0	.3	.1	.0*	.0	.0	.0	.0	.0	.0	515	515	58
>= 63	.0*	.6	1.9	3.1	3.0	3.0	2.3	.6	.5	.1	.0*	.0	.0	.0	.0	.0	.0	818	818	134
>= 61	.1	1.7	2.9	3.1	3.1	3.1	1.1	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	853	853	390
>= 59	.1	2.5	3.5	3.2	2.1	2.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	835	835	757
>= 57	.3	2.2	3.4	2.9	1.2	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	724	724	970
>= 55	.4	2.7	2.7	2.1	.6	.6	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	589	589	1075
>= 53	.2	2.0	2.3	1.4	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	442	442	1056
>= 51	.2	1.8	1.6	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	303	821
>= 49	.2	1.7	1.3	.3	.1	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	239	617
>= 47	.3	1.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	157	382
>= 45	.1	.9	.3	.2	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	102	241
>= 43	.0*	.2	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	28	121
>= 41	.0*	.1	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	15	61
>= 39	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	24
>= 37	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	5
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	3
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0
TOTAL	2.0	17.6	21.5	20.1	16.0	9.4	5.1	3.0	2.3	1.7	1.0	.3	.1	.0*	.0	.0	.0	6720	6720	6720

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL		
28 - REL HUM	463546.	33921224.	69.0	17.018	6720	<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F	TOTAL
15 - DRY BULB	405735.	24828111.	60.4	7.018	6720	.0	.0	.0	117.5	37.2	5.9	.0
16 - WET BULB	364605.	19942175.	54.3	4.879	6720	.0	.0	.0	.4	.0	.0	.0
17 - DEW PT.	330303.	16497035.	49.2	6.243	6720	.0	10.2	.1	.0	.0	.0	.0



013025 ROTÀ, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY PAGE 2

**PAGE 2**

**DRY-BULB**

TEMP.  
(DEG F)

% FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)

D.B./	DRY	WET	DEW
M.B.	BULB	RULB	P.T.

TOTAL	1.1	11.2	18.6	19.9	15.8	11.4	7.4	4.6	3.2	2.8	1.8	1.2	.5	.3	.2	.1	.0	6943	6943
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**ELEMENT (X)**

MEAN STD DEV # OBS

40 - MEAN NO. OF HOURS WITH TEMP.  
 <=0 F <=32 F >=67 F >=73 F >=80 F >=93 F

28	-	REL HUM
15	-	DRY BULB
16	-	WET BULB
17	-	DEW PT.

65.5	17.389	6943
65.4	7.781	6943
57.9	4.711	6943
52.3	5.917	6943

.0	.0	283.5	125.7	43.4	.5	744
.1	.1	17.3	.0	.0	.0	744
.0	2.8	.3	.0	.0	.0	744

### 3 - PSYCHROMETRIC SUMMARY

013025 R07A. SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUN PAGE 1

[illegible]

**ELEMENT(X)**

MEAN STD DEV # OBS

```

40 - MEAN NO. OF HOURS WITH TEMP.
<=0 F <=32 F >=67 F >=73 F >=80 F >=93 F TOTAL

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28 - REL HUM  
15 - DRY BUL  
16 - WET BUL  
17 - DEW PT.

42356.	31185646.
774090.	33827124.
20038.	<u>26380708.</u>
85280.	22308072.

65.8	17.539	6720
70.5	7.525	6720
62.5	4.330	6720
57.3	5.662	6719

.0	.0	490.4	259.5	88.8	3.9	720
.0	.0	127.3	4.3	.0	.0	720
.0	.3	17.3	.4	.0	.0	720

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL		
																		W.B.	D.B.7	TOTAL OBS
>=105	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	2	2	0
>=103	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	1	1	0
>=101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	2	2	0
>=99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	16	16	0
>=97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	27	27	0
>=95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	43	43	0
>=93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	57	57	0
>=91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	113	113	0
>=89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	178	178	0
>=87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	172	172	0
>=85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	231	231	0
>=83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	313	313	0
>=81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	479	479	0
>=79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	542	542	0
>=77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	566	566	12
>=75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	690	690	40
>=73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	732	732	200
>=71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	736	736	618
>=69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	742	742	1105
>=67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	525	525	1321
>=65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	335	335	1361
>=63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	227	227	1029
>=61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	127	127	659
>=59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	47	47	348
>=57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	21	21	165
>=55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	16	16	69
>=53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	2	2	13
>=51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	2
>=49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	1
>=47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
>=35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	0	0	0
TOTAL	1.1	7.3	15.0	15.7	14.5	12.7	9.3	6.9	5.0	3.6	3.4	2.1	1.5	.8	.7	.2	.1	6942	6943	6941

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL
28 - REL HUM	442981.	30509305.	63.8	17.972	6942	<=0 F <=32 F >=67 F >=73 F >=80 F >=93 F				
15 - DRY BULB	522383.	39712953.	75.2	7.680	6943					744
16 - WET BULB	458736.	30416592.	66.1	3.928	6943					744
17 - DEW PT.	421710.	25826684.	60.8	5.436	6941					744





### 3 - PSYCHROMETRIC SUMMARY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
PAGE 2

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

DRY - BULB TEMP. (DEG F)		3 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)										TOTAL		TOTAL OBS																											
		0		1-2		3-4		5-6		7-8		9-10		11-12		13-14		15-16		17-18		19-20		21-22		23-24		25-26		27-28		29-30		> 30		D.B./ W.B.		DRY WET		DEM PI.	
TOTAL		1.2	7.3	14.6	16.0	14.9	13.3	9.7	6.6	5.3	3.7	2.6	2.0	1.4	.7	.4	.3	.1							6941		6944		6942		6942										

ELEMENT(I)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL	
						<=0 F	<=32 F	>=67 F	>=73 F		>=80 F
28 - REL HUM	446700.	30808326.	64.3	17.577	6942						744
15 - DRY BULB	523915.	39930601.	75.4	7.609	6944						744
16 - WET BULB	461229.	30766305.	66.4	4.194	6942						744
17 - DEW PT.	425430.	26291580.	61.3	5.627	6942						744
						<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F
						.0	.0	.2	397.2	203.4	17.0
						.2	.2	.2	39.9	.2	.0
						.0	.0	.0	3.9	.0	.0

	28 - REL HUM	30888326.	64.3	17.577	6942					
15 - DRY BULB	523915.	39930601.	75.4	7.609	6944	.0	665.0	466.9	203.4	17.0
16 - WET BULB	461229.	30766305.	66.4	4.194	6942	.2	397.2	39.9	.2	.0
17 - DEW PT.	425430.	26291580.	61.3	5.627	6942	.0	117.0	3.9	.0	.0

## 3 - PSYCHROMETRIC SUMMARY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP  
PAGE 1

DRY-BULB TEMP. (DEG F)	2 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)										TOTAL		TOTAL OBS									
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	D.B./ W.B.	DRY BULB	WET BULB	DEW PT.	
>=101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	0	0
>= 99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	0	0
>= 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8	0	0
>= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	15	0	0
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	38	0	0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	66	0	0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	78	0	0
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	129	0	0
>= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	161	0	0
>= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	187	0	0
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	348	348	2	0
>= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	403	403	0	1
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	486	3	1
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	634	634	36	3
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	739	739	167	4
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	787	787	458	66
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	768	768	861	248
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	570	570	1076	447
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	459	459	1204	719
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	303	957	1040
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	200	734	940
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	164	532	873
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	84	279	640
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	48	195	532
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	19	105	405
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	14	45	266
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6	35	192
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4	17	125
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	10	89
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	4	45
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	22
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	18
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	11
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	7
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	15
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	4
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	4
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP PAGE 2

**PAGE 2**

**DRY-BULB**

2 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)

TEMP. (DEG F)

DRY-BULB TEMP. (DEG F)		2 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)										TOTAL		TOTAL OBS						
0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	O.B./ W.B.	DRY BULB	WET BULB	DEW PT.
TOTAL	1.8	10.0	15.6	18.0	15.7	11.5	8.4	6.1	4.6	3.5	2.1	1.6	.6	.4	.1	.0		6720	6720	6720

<u>ELEMENT(X)</u>	<u>DATE</u>	<u>TIME</u>	<u>LOCATION</u>	<u>REMARKS</u>
1	10/10/2023	10:00	Room 101	Initial inspection
2	10/10/2023	11:30	Room 101	Minor repairs
3	10/10/2023	14:00	Room 101	Final check
4	10/10/2023	16:00	Room 101	Documentation
5	10/10/2023	18:00	Room 101	Handover

[illegible]

40 - MEAN NO. OF HOURS WITH TEMP.  
 <=0 F <=32 F >=67 F >=73 F >=80 F >=93 F TOTAL

28 - MEL HUM	446621.	31721091.	66.5	17.398	6719
15 - DRY BULB	489193.	36003981.	72.8	7.642	6720
16 - WET BULB	434936.	28310508.	64.7	4.885	6720
17 - DRY PT.	402089.	24323233.	59.8	6.273	6720

40 - MEAN NO. OF HOURS WITH TEMP.						
<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F	TOTAL
.0	.0	580.6	352.9	127.7	6.7	720
.0	.0	278.9	22.3	.2	.0	720
.0	1.2	82.5	1.0	.0	.0	720

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

013025 ROTA, SPAIN

PERIOD OF RECORD : 1958-1987

PAGE 1

DRY-BULB TEMP. (DEG F)		0		1-2		3-4		5-6		7-8		9-10		11-12		13-14		15-16		17-18		19-20		21-22		23-24		25-26		27-28		29-30		> 30		TOTAL W.B.		TOTAL OBS DRY WET BULB BULB PT.			
0		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20	
>= 91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
>= 37	0	0	0	0	0	0	0	0	0	0	0	0	0</																												

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS
1	1	1	1	0	1
2	2	4	2	0	1
3	3	9	3	0	1
4	4	16	4	0	1
5	5	25	5	0	1
6	6	36	6	0	1
7	7	49	7	0	1
8	8	64	8	0	1
9	9	81	9	0	1
10	10	100	10	0	1
11	11	121	11	0	1
12	12	144	12	0	1
13	13	169	13	0	1
14	14	196	14	0	1
15	15	225	15	0	1
16	16	256	16	0	1
17	17	289	17	0	1
18	18	324	18	0	1
19	19	361	19	0	1
20	20	400	20	0	1
21	21	441	21	0	1
22	22	484	22	0	1
23	23	529	23	0	1
24	24	576	24	0	1
25	25	625	25	0	1
26	26	676	26	0	1
27	27	729	27	0	1
28	28	784	28	0	1
29	29	841	29	0	1
30	30	900	30	0	1
31	31	961	31	0	1
32	32	1024	32	0	1
33	33	1089	33	0	1
34	34	1156	34	0	1
35	35	1225	35	0	1
36	36	1296	36	0	1
37	37	1369	37	0	1
38	38	1444	38	0	1
39	39	1521	39	0	1
40	40	1600	40	0	1
41	41	1681	41	0	1
42	42	1764	42	0	1
43	43	1849	43	0	1
44	44	1936	44	0	1
45	45	2025	45	0	1
46	46	2116	46	0	1
47	47	2209	47	0	1
48	48	2304	48	0	1
49	49	2401	49	0	1
50	50	2500	50	0	1
51	51	2601	51	0	1
52	52	2704	52	0	1
53	53	2809	53	0	1
54	54	2916	54	0	1
55	55	3025	55	0	1
56	56	3136	56	0	1
57	57	3249	57	0	1
58	58	3364	58	0	1
59	59	3481	59	0	1
60	60	3600	60	0	1
61	61	3721	61	0	1
62	62	3844	62	0	1
63	63	3969	63	0	1
64	64	4096	64	0	1
65	65	4225	65	0	1
66	66	4356	66	0	1
67	67	4489	67	0	1
68	68	4624	68	0	1
69	69	4761	69	0	1
70	70	4900	70	0	1
71	71	5041	71	0	1
72	72	5184	72	0	1
73	73	5329	73	0	1
74	74	5476	74	0	1
75	75	5625			

40 - MEAN NO. OF HOURS WITH TEMP.

93 F TOTAL

[illegible]

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : NOV  
PAGE 1

DRY-BULB		3 FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)															TOTAL		TOTAL OBS		
TEMP.		0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	O.B./	DRY	WET
(DEG F)																			W.B.	BULB	DEW
>= 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
>= 81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0
>= 79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	0
>= 77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	0
>= 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42	0
>= 73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	83	0
>= 71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	124	0
>= 69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	183	0
>= 67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290	290	0
>= 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	545	545	0
>= 63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	878	878	0
>= 61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	767	767	0
>= 59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	740	740	0
>= 57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	709	709	0
>= 55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	664	664	0
>= 53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	525	525	0
>= 51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	422	422	0
>= 49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	349	349	0
>= 47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	230	230	0
>= 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	161	0
>= 43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	106	0
>= 41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	58	0
>= 39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	0
>= 37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	0
>= 35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
>= 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
>= 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5.0	27.2	24.9	18.9	11.6	6.0	3.3	1.5	.9	.3	.2	.1	.0	.0	.0	.0	.0	.0	6960	6960	6960

ELEMENT(X)		SUM X	SUM X**2	MEAN STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.					TOTAL	
28 - REL HUM	524324.	41221252.	75.3	15.705	6959	<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F	F
15 - DRY BULB	408101.	24277795.	58.6	7.079	6960	.0	.0	.0	17.1	.6	.0	720
16 - WET BULB	376182.	20590184.	54.1	6.053	6959	.1	.5	4.3	.0	.0	.0	720
17 - DEW PT.	349287.	17906049.	50.2	7.361	6960	.0	17.5	1.8	.0	.0	.0	720

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26		27-28		29-30		> 30		TOTAL		TOTAL OBS	
														D.B./		W.B.		D.B./		W.B.		TOTAL		TOTAL OBS	
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	6.6	33.7	28.7	17.9	7.9	3.6	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

ELEMENT(X)	SUM X	SUM X**2	MEAN STD DEV	# OPS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL
					<=0 F	<=32 F	>=67 F	>=73 F	
20 - REL HUM	564939.	45719535.	78.6	13.482	7186				
15 - DRY BULB	387167.	21234769.	53.8	7.387	7192				
16 - WET BULB	361058.	18449570.	50.2	6.577	7187				
17 - DEW PT.	337017.	16195411.	46.9	7.364	7186				







4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION								CALM	TOTAL FREQ.	% OF TOTAL
	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW			
>= 72	.0	25.0	25.0	25.0	.0	.0	.0	25.0	.0	4	.1
>= 67	10.0	10.0	15.0	40.0	10.0	.0	2.5	2.5	10.0	40	.6
>= 62	6.5	9.0	9.2	20.4	13.4	16.3	19.7	2.7	2.7	553	8.0
>= 57	5.7	6.6	6.0	13.2	13.7	17.6	22.7	9.7	4.8	1839	26.5
>= 52	11.0	13.0	14.6	12.9	5.6	5.4	12.3	16.1	9.2	1844	26.6
>= 47	17.0	22.4	26.8	4.7	1.0	.3	2.3	13.3	12.2	1247	18.0
>= 42	19.1	33.5	31.1	2.2	.1	.1	.2	4.3	9.4	928	13.4
>= 37	15.2	44.8	30.4	1.5	.3	.0	.3	1.0	6.4	388	5.6
>= 32	18.4	42.9	28.6	.0	.0	.0	.0	1.0	9.2	98	1.4
>= 27	.0	.0	100.0	.0	.0	.0	.0	.0	.0	2	.0*
TOTALS	11.7	17.6	17.4	10.0	6.5	7.5	11.3	10.1	7.9	6943	100.0

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB  
PAGE 1

TEMP. (DEG F)	NNW & N		NNE & NE		ENE & E		ESE & SE		SSE & S		SSW & SW		WSW & W		WNW & NW		CALM		TOTAL FREQ.		% OF TOTAL	
>= 77	.0	13.3	50.0	6.7	.0	50.0	26.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15	.2	.0*
>= 72	11.2	11.2	20.0	12.1	12.1	18.1	30.2	20.0	30.2	6.7	1.7	5.2	5.2	5.2	4.3	4.3	6.7	6.7	116	116	1.8	1.8
>= 62	4.4	4.4	8.9	8.4	8.4	15.4	15.4	15.4	15.4	18.6	18.6	20.2	20.2	20.2	5.7	5.7	2.9	2.9	682	682	10.8	10.8
>= 57	3.6	3.6	5.4	7.1	7.1	10.1	10.1	14.6	14.6	19.3	19.3	27.6	27.6	27.6	9.7	9.7	2.6	2.6	1847	1847	29.2	29.2
>= 52	9.7	9.7	6.8	12.4	12.4	15.4	15.4	6.1	6.1	6.2	6.2	18.7	18.7	18.7	17.7	17.7	7.0	7.0	1850	1850	29.3	29.3
>= 47	14.1	14.1	21.0	28.2	28.2	8.1	8.1	1.2	1.2	.5	.5	3.3	3.3	3.3	14.5	14.5	9.1	9.1	1031	1031	16.3	16.3
>= 42	17.8	17.8	31.0	34.3	34.3	2.4	2.4	.3	.3	.0	.0	.2	.2	.2	5.4	5.4	8.5	8.5	574	574	9.1	9.1
>= 37	10.3	10.3	48.9	31.0	31.0	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	5.4	5.4	184	184	2.9	2.9
>= 32	5.6	5.6	50.0	33.3	33.3	5.6	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.6	18	18	.3	.3
TOTALS	8.8	8.8	12.7	15.6	15.6	11.2	11.2	8.5	8.5	9.6	9.6	16.4	16.4	16.4	11.6	11.6	5.6	5.6	6319	6319	100.0	100.0

NOTES : \* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAR  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION											TOTAL FREQ.	% OF TOTAL
	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM				
>= 77	13.8	3.4	24.1	24.1	10.3	6.9	3.4	10.3	3.4	3.4	29	.4	
>= 72	8.5	20.2	11.6	21.7	14.7	4.7	11.6	5.4	1.6	1.6	129	1.9	
>= 67	7.1	10.8	11.1	28.9	11.1	5.8	14.2	7.1	4.0	4.0	325	4.7	
>= 62	4.5	6.6	5.9	17.0	11.8	14.0	27.7	10.8	1.6	1.6	1127	16.2	
>= 57	5.6	5.5	7.3	13.1	8.7	12.3	28.5	15.2	3.8	3.8	2175	31.3	
>= 52	11.7	8.7	15.4	13.1	4.4	3.7	16.2	19.6	7.1	7.1	1819	26.2	
>= 47	23.9	16.9	28.2	4.9	1.4	.1	2.7	12.6	9.3	9.3	900	13.0	
>= 42	24.7	29.9	30.5	1.7	.3	.0	1.1	3.6	8.3	8.3	361	5.2	
>= 37	13.0	40.3	36.4	2.6	.0	.0	.0	.0	7.8	7.8	77	1.1	
>= 32	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0*	
TOTALS	10.6	10.2	13.8	12.9	6.8	7.5	19.0	13.9	5.3	5.3	6943	100.0	

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : APR  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										TOTAL FREQ.	% OF TOTAL
	NNW E N	NNE ENE	ENE E E	ESE ESE	SSE E S	SSW ESW	WSW E W	NNW ENW	CALM			
>= 87	.0	.0	.0	.0	.0	.0	100.0	.0	.0	1	.0*	
>= 82	4.5	9.1	4.5	27.3	13.6	13.6	13.6	.0	13.6	22	.3	
>= 77	2.6	12.3	8.8	27.2	9.6	9.6	21.1	7.9	.9	114	1.7	
>= 72	4.3	10.8	13.3	20.7	10.8	9.0	20.1	9.3	1.9	324	4.8	
>= 67	4.4	7.4	9.8	12.6	11.2	13.3	28.3	12.0	.9	633	9.4	
>= 62	3.3	5.1	5.9	10.0	11.2	18.0	34.6	9.3	2.5	1680	25.0	
>= 57	6.6	4.6	7.9	9.3	8.5	12.8	30.3	14.0	5.9	2057	30.7	
>= 52	12.1	11.4	19.9	6.2	2.0	3.3	13.3	19.6	12.1	1223	18.2	
>= 47	17.8	16.0	35.2	3.2	1.2	.4	2.2	10.5	13.6	506	7.5	
>= 42	24.8	23.4	43.3	.0	.0	.0	.0	2.8	5.7	141	2.1	
>= 37	28.6	57.1	.0	.0	.0	.0	.0	.0	14.3	7	.1	
TOTALS	7.6	8.0	12.8	9.5	7.7	11.0	24.6	12.8	6.1	6708	100.0	

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY  
PAGE 1

TEMP. (DEG F)	WNW & N		NNE & E		ENE & E		ESE & E		SSE & S		SSW & W		WSW & W		WNW & W		CALM		TOTAL FREQ.		# OF TOTAL	
>= 92	.0	22.2	.0	15.4	.0	.0	.0	77.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9	.1	.1
>= 87	.0	1.9	.0	11.5	.0	51.9	33.0	19.2	1.9	1.9	1.9	1.9	7.7	7.7	1.9	1.9	.0	.0	52	52	.8	.8
>= 82	1.9	4.8	.0	12.4	.0	28.1	11.8	18.2	4.8	4.8	4.8	4.8	17.2	17.2	8.1	8.1	.5	.5	209	209	3.0	3.0
>= 77	3.8	5.1	.0	9.2	.0	11.8	10.7	9.5	5.7	5.7	5.7	5.7	25.7	25.7	9.2	9.2	.5	.5	370	370	5.3	5.3
>= 72	3.4	5.2	.0	7.2	.0	10.7	7.0	11.1	14.1	14.1	14.1	14.1	31.6	31.6	11.5	11.5	2.2	2.2	773	773	11.2	11.2
>= 67	3.3	3.8	.0	6.5	.0	7.0	5.6	11.3	18.5	18.5	18.5	18.5	32.7	32.7	10.1	10.1	2.5	2.5	1218	1218	17.6	17.6
>= 62	4.7	3.1	.0	13.5	.0	5.6	4.0	11.6	17.2	17.2	17.2	17.2	33.6	33.6	11.8	11.8	4.5	4.5	2046	2046	29.5	29.5
>= 57	8.4	5.2	.0	29.9	.0	4.0	1.5	4.9	11.2	11.2	11.2	11.2	23.7	23.7	19.5	19.5	8.0	8.0	1459	1459	21.1	21.1
>= 52	16.9	11.9	.0	32.0	.0	.8	.8	1.5	2.0	2.0	2.0	2.0	5.0	5.0	18.6	18.6	10.1	10.1	655	655	9.5	9.5
>= 47	20.3	18.8	.0	80.0	.0	.0	.0	.8	1.6	1.6	1.6	1.6	2.3	2.3	10.9	10.9	12.5	12.5	128	128	1.8	1.8
>= 42	20.0	.0	.0	11.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5	.1	.1
TOTALS	6.4	5.2	.0	11.7	.0	9.7	9.7	9.1	12.9	12.9	12.9	12.9	26.7	26.7	13.4	13.4	4.9	4.9	6924	6924	100.0	100.0

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUN  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										TOTAL FREQ.	% OF TOTAL
	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM			
>=102	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	1	.0*
>= 97	.0	.0	14.3	57.1	14.3	14.3	.0	.0	.0	.0	7	.1
>= 92	2.6	2.6	7.9	44.7	18.4	7.9	5.3	10.5	.0	.0	38	.6
>= 87	1.3	2.6	10.5	40.5	18.3	5.2	13.1	6.5	2.0	.0	153	2.3
>= 82	1.0	2.6	10.1	30.0	20.9	9.6	17.6	7.8	.5	.0	387	5.8
>= 77	2.1	3.2	8.4	20.1	10.4	13.5	30.6	9.8	1.9	.0	772	11.5
>= 72	3.0	2.4	7.1	12.2	13.6	14.7	36.5	7.9	2.5	.0	1445	21.6
>= 67	2.1	2.6	6.7	9.2	15.6	15.6	32.2	9.3	6.6	.0	1751	26.2
>= 62	6.4	4.1	12.6	5.1	11.0	11.4	26.5	13.6	9.4	.0	1497	22.4
>= 57	13.9	7.1	26.0	2.8	.9	4.3	12.0	16.9	16.1	.0	534	8.0
>= 52	19.6	13.7	37.3	3.9	1.0	.0	2.0	7.8	14.7	.0	102	1.5
>= 47	.0	25.0	62.5	.0	.0	.0	.0	.0	12.5	.0	8	.1
TOTALS	4.4	3.5	10.7	11.8	12.5	12.4	28.1	10.4	6.2	.0	6695	100.0

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL  
PAGE 1

TEMP. (DEG F)	NNW £ N	NNE £ NE	ENE £ E	ESE		WIND DIRECTION			WSW £ W	WNW £ NW	CALM	TOTAL FREQ.	% OF TOTAL
				£ SE	£ ESE	SSE £ S	SSW £ SW						
>=102	25.0	.0	.0	50.0	.0	.0	.0	25.0	.0	.0	.0	4	.1
>= 97	7.0	.0	4.7	30.2	27.9	4.7	16.3	9.3	.0	.0	.0	43	.6
>= 92	3.4	1.4	4.1	37.0	26.7	5.5	13.0	8.9	.0	.0	.0	146	2.1
>= 87	1.2	1.5	8.7	29.6	17.2	7.3	23.8	10.0	.7	.7	.7	412	6.0
>= 82	1.5	2.3	9.0	19.3	9.5	8.6	38.1	10.7	.9	.9	.9	777	11.2
>= 77	2.0	1.9	6.5	15.1	9.7	11.8	39.8	10.8	2.4	2.4	2.4	1337	19.3
>= 72	3.7	1.8	7.9	9.8	14.0	13.2	32.4	11.0	6.3	6.3	6.3	1870	27.0
>= 67	5.2	3.5	10.5	7.1	14.1	11.2	24.8	11.7	11.8	11.8	11.8	1550	22.4
>= 62	10.9	5.6	25.3	5.7	4.0	3.7	12.3	14.4	18.0	18.0	18.0	644	9.3
>= 57	17.5	8.8	36.8	1.8	2.6	1.8	2.6	9.6	18.4	18.4	18.4	114	1.6
>= 52	11.1	5.6	38.9	27.8	.0	.0	.0	.0	16.7	16.7	16.7	18	.3
TOTALS	4.3	2.7	10.5	12.7	12.1	10.3	29.3	11.2	7.0	7.0	7.0	6915	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										CALM	TOTAL FREQ.	% OF TOTAL
	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	ENW				
>=112	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	1	.0*	
>=107	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0*	
>=102	.0	14.3	.0	28.6	28.6	.0	28.6	.0	.0	.0	7	.1	
>= 97	10.3	3.4	10.3	37.9	24.1	.0	10.3	3.4	.0	.0	29	.4	
>= 92	2.5	3.1	8.0	32.5	26.4	.0	14.1	8.6	.6	.6	163	2.4	
>= 87	1.5	3.2	5.1	24.9	23.4	4.3	24.4	10.7	.7	.7	410	5.9	
>= 82	2.1	3.0	7.7	17.4	10.5	8.4	37.7	12.3	.9	.9	771	11.1	
>= 77	2.2	3.1	8.2	13.6	9.2	12.0	37.0	12.3	2.3	2.3	1431	20.7	
>= 72	5.3	2.8	6.2	8.7	15.8	12.0	28.9	12.4	7.9	7.9	1983	28.6	
>= 67	8.5	4.4	12.8	5.0	9.6	9.7	19.4	14.6	15.9	15.9	1394	20.1	
>= 62	17.1	7.9	25.0	4.6	4.9	2.1	5.8	14.6	17.8	17.8	567	8.2	
>= 57	20.1	5.8	35.7	5.2	.0	1.3	1.3	11.0	19.5	19.5	154	2.2	
>= 52	21.4	21.4	35.7	.0	.0	.0	.0	.0	21.4	21.4	14	.2	
>= 47	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	1	.0*	
TOTALS	6.0	3.8	10.4	11.2	12.1	9.5	26.4	12.7	8.0	8.0	6926	100.0	

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										TOTAL FREQ.	% OF TOTAL
	NNW £ N	NNE £ NE	ENE £ E	ESE £ SE	SSE £ S	SSW £ SW	WSW £ W	WNW £ NW	CALM			
>= 97	.0	.0	20.0	50.0	10.0	.0	10.0	10.0	.0	10	.1	
>= 92	5.3	2.6	6.6	40.8	34.2	3.9	3.9	1.3	1.3	76	1.1	
>= 87	2.8	1.6	8.8	35.6	28.8	6.8	11.6	3.2	.8	250	3.7	
>= 82	2.5	3.5	11.6	27.8	16.3	8.2	23.5	6.1	.4	510	7.6	
>= 77	1.8	3.4	9.3	21.6	11.3	12.2	30.1	8.2	2.1	1068	15.9	
>= 72	3.1	3.5	9.0	16.1	11.2	11.2	30.9	9.5	5.4	1824	27.2	
>= 67	6.2	4.2	11.0	7.2	9.3	9.3	28.7	13.4	10.8	1674	24.9	
>= 62	14.0	8.4	21.6	5.7	5.2	5.1	11.5	12.7	15.8	866	12.9	
>= 57	14.0	12.5	38.1	4.7	1.7	.6	2.3	7.6	18.6	344	5.1	
>= 52	8.2	16.4	54.8	1.4	.0	.0	.0	4.1	15.1	73	1.1	
>= 47	22.2	27.8	33.3	11.1	.0	.0	.0	.0	5.6	18	.3	
TOTALS	5.7	4.9	13.4	14.6	10.6	8.9	24.2	9.9	7.7	6713	100.0	

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : OCT  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										CALM	TOTAL FREQ.	% OF TOTAL
	NNW £ N	NNE £ NE	ENE £ E	ESE £ SE	SSE £ S	SSW £ SW	WSW £ W	WNW £ NW	WNW £ NW				
>= 92	.0	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0	1	.0*
>= 87	7.7	7.7	15.4	15.4	38.5	.0	7.7	.0	.0	7.7	.0	13	.2
>= 82	4.8	8.0	8.0	32.0	21.6	5.6	13.6	5.6	5.6	.8	.8	125	1.7
>= 77	3.3	5.4	10.0	26.3	20.7	6.9	18.2	7.7	7.7	1.5	1.5	391	5.4
>= 72	3.5	6.4	8.7	24.5	13.7	10.1	21.5	9.0	9.0	2.5	2.5	984	13.7
>= 67	4.1	3.8	9.1	21.3	15.0	11.1	20.9	9.7	9.7	4.9	4.9	1858	25.9
>= 62	8.0	7.2	15.7	16.7	8.6	7.2	16.8	11.7	11.7	8.0	8.0	2192	30.6
>= 57	16.7	17.2	30.5	6.1	1.1	1.3	6.3	9.8	9.8	11.0	11.0	1041	14.5
>= 52	19.4	28.5	31.8	4.8	.5	.2	1.2	5.5	5.5	8.1	8.1	418	5.8
>= 47	17.6	35.1	26.0	6.1	.0	.0	.8	3.1	3.1	11.5	11.5	131	1.8
>= 42	20.0	50.0	30.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.3
>= 37	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0*
TOTALS	8.2	9.4	15.9	17.3	10.2	7.1	15.7	9.6	9.6	6.5	6.5	7175	100.0

NOTES :  
\* = PERCENT < .05

# 4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : NOV  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION										TOTAL FREQ.	% OF TOTAL
	NNW & N	NNE & NE	ENE & E	ESE & S	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM			
>= 82	33.3	33.3	.0	.0	.0	.0	.0	.0	33.3	3	.0*	
>= 77	.0	16.7	11.1	25.0	13.9	13.9	13.9	.0	5.6	36	.5	
>= 72	1.5	17.4	13.3	38.5	10.8	7.7	7.2	2.1	1.5	195	2.8	
>= 67	5.3	12.0	10.6	20.5	15.9	11.6	15.9	6.5	1.7	527	7.6	
>= 62	6.3	7.6	8.1	17.3	15.4	11.7	18.9	11.1	3.5	1781	25.6	
>= 57	11.6	11.1	14.7	11.9	8.9	4.8	13.2	15.4	8.3	1859	26.7	
>= 52	17.7	21.5	26.8	6.0	1.9	.8	2.8	12.1	10.4	1449	20.8	
>= 47	18.7	35.0	29.2	2.3	.1	.0	.5	4.7	9.3	742	10.7	
>= 42	16.2	43.1	30.6	.7	.0	.0	.0	1.7	7.7	297	4.3	
>= 37	9.0	41.8	32.8	1.5	.0	.0	.0	4.5	10.4	67	1.0	
>= 32	.0	.0	100.0	.0	.0	.0	.0	.0	.0	3	.0*	
TOTALS	11.6	16.9	17.6	11.9	8.3	5.6	10.5	10.6	6.9	6959	100.0	

NOTES :  
\* = PERCENT < .05

# 4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VERSUS

WIND DIRECTION

(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC  
PAGE 1

TEMP. (DEG F)	WIND DIRECTION																TOTAL FREQ.	% OF TOTAL
	NNW %	MNE %	ENE %	ESE %	ESE %	SSE %	SSW %	WSW %	WNW %	CALM	WNV %	WSW %	SSW %	SSW %	SSW %	SSW %		
>= 72	.0	15.4	7.7	38.5	7.7	15.4	.0	23.1	.0	7.7	.0	23.1	.0	.0	.0	.0	13	.2
>= 67	4.4	8.8	8.8	16.9	15.4	15.4	14.0	20.6	6.6	4.4	6.6	20.6	14.0	14.0	14.0	14.0	136	1.9
>= 62	4.4	7.5	7.4	10.2	14.7	14.7	24.4	23.9	4.7	3.0	4.7	23.9	24.4	24.4	24.4	24.4	964	13.4
>= 57	6.7	9.6	8.8	15.7	10.1	10.1	12.0	19.0	13.8	4.4	13.8	19.0	12.0	12.0	12.0	12.0	1756	24.4
>= 52	13.3	14.9	17.1	9.2	3.7	3.7	2.6	11.7	17.8	9.8	17.8	11.7	2.6	2.6	2.6	2.6	1680	23.4
>= 47	18.7	25.9	27.0	2.9	.6	.6	.2	1.9	12.5	10.3	12.5	1.9	.2	.2	.2	.2	1305	18.2
>= 42	18.7	38.0	29.0	1.5	.1	.1	.2	.3	3.5	8.6	3.5	.3	.2	.2	.2	.2	931	12.9
>= 37	21.3	43.2	28.4	.3	.0	.0	.0	.0	.3	6.5	.3	.0	.0	.0	.0	.0	338	4.7
>= 32	15.3	47.5	32.2	.0	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	.0	.0	59	.8
>= 27	14.3	14.3	71.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.1
>= 22	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0*
TOTALS	12.4	19.1	17.6	8.5	5.7	5.7	7.1	11.4	11.0	7.2	11.0	11.4	7.1	7.1	7.1	7.1	7190	100.0

NOTES :  
\* = PERCENT < .05

4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : ANN  
PAGE 1

TEMP. (DEG F)	NNW & N		NNE & E		ENE & E		ESE & E		SSE & S		SSW & W		WNW & W		CALM		TOTAL FREQ.		% OF TOTAL	
>=112	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	1	1	.0*	.0*
>=107	.0	.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	.0*	.0*
>=102	8.3	8.3	8.3	.0	.0	.0	41.7	16.7	.0	.0	.0	.0	.0	.0	.0	.0	12	12	.0*	.0*
>= 97	6.7	1.1	1.1	9.0	9.0	37.1	37.1	23.6	3.4	3.4	12.4	12.4	6.7	6.7	.0	.0	89	89	.1	.1
>= 92	3.2	2.8	2.8	6.2	6.2	35.8	35.8	28.4	4.8	4.8	10.9	10.9	7.4	7.4	.5	.5	433	433	.5	.5
>= 87	1.6	2.2	2.2	8.1	8.1	31.3	31.3	21.8	6.3	6.3	19.6	19.6	8.1	8.1	.9	.9	1291	1291	1.6	1.6
>= 82	2.0	3.3	3.3	9.3	9.3	23.4	23.4	13.8	8.2	8.2	29.6	29.6	9.4	9.4	.9	.9	2804	2804	3.4	3.4
>= 77	2.3	3.5	3.5	8.6	8.6	18.7	18.7	10.8	11.4	11.4	32.7	32.7	10.1	10.1	2.1	2.1	5550	5550	6.7	6.7
>= 72	3.8	4.1	4.1	8.1	8.1	14.0	14.0	13.3	12.1	12.1	29.5	29.5	10.0	10.0	4.9	4.9	9559	9559	11.6	11.6
>= 67	5.0	4.7	4.7	9.7	9.7	11.9	11.9	12.9	12.1	12.1	25.2	25.2	10.9	10.9	7.7	7.7	11222	11222	13.6	13.6
>= 62	6.7	6.3	6.3	11.3	11.3	11.5	11.5	11.0	12.9	12.9	23.1	23.1	10.7	10.7	6.5	6.5	14599	14599	17.7	17.7
>= 57	8.1	7.7	7.7	12.3	12.3	10.5	10.5	8.7	11.3	11.3	21.3	21.3	13.4	13.4	6.6	6.6	15179	15179	18.4	18.4
>= 52	13.0	13.0	13.0	19.0	19.0	10.2	10.2	3.8	3.5	3.5	11.7	11.7	16.6	16.6	9.2	9.2	11145	11145	13.5	13.5
>= 47	18.2	23.3	23.3	28.5	28.5	4.4	4.4	.9	.3	.3	2.2	2.2	11.6	11.6	10.6	10.6	6017	6017	7.3	7.3
>= 42	19.3	34.4	34.4	31.6	31.6	1.7	1.7	.2	.1	.1	.3	.3	3.9	3.9	8.5	8.5	3257	3257	4.0	4.0
>= 37	15.8	44.6	44.6	30.2	30.2	1.4	1.4	.1	.0	.0	.1	.1	1.0	1.0	6.7	6.7	1062	1062	1.3	1.3
>= 32	15.6	44.7	44.7	31.3	31.3	.6	.6	.0	.0	.0	.0	.0	.6	.6	7.3	7.3	179	179	.2	.2
>= 27	11.1	11.1	11.1	77.8	77.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9	.0*	.0*
>= 22	.0	.0	.0	100.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	.0*	.0*
TOTALS	8.2	9.5	9.5	14.0	14.0	11.8	11.8	9.2	9.1	9.1	20.2	20.2	11.4	11.4	6.6	6.6	82410	82410	100.0	100.0

NOTES :  
\* = PERCENT < .05

013025 ROIA, SPAIN  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
JAN	01	29.8	26.9	17.5	25.8	744
	04	30.9	26.7	16.4	26.0	742
	07	26.8	24.5	19.9	28.8	743
	10	16.3	23.3	27.0	33.3	741
	13	17.4	23.7	27.9	31.0	742
	16	14.0	29.9	25.8	30.3	743
	19	14.4	27.7	29.3	28.5	743
	22	25.0	27.1	20.9	27.1	743
	ALL	21.8	26.2	23.1	28.9	5941
FEB	01	29.6	25.7	20.9	23.8	676
	04	30.0	24.3	20.0	25.7	676
	07	28.1	23.5	21.1	27.3	677
	10	17.5	24.4	26.4	31.6	673
	13	16.8	23.5	26.7	32.9	677
	16	12.7	27.0	29.2	31.0	677
	19	12.3	27.5	30.9	29.4	677
	22	25.6	28.4	19.4	26.6	676
	ALL	21.6	25.5	24.3	28.6	5409
MAR	01	32.8	28.2	17.7	21.3	774
	04	31.7	27.4	17.7	23.2	773
	07	27.0	28.3	22.5	22.1	773
	10	23.5	23.6	25.2	27.8	771
	13	16.6	29.5	27.5	26.4	772
	16	14.5	32.2	27.0	26.2	770
	19	18.6	28.4	29.8	23.2	775
	22	26.1	32.3	20.4	21.2	774
	ALL	23.9	28.7	23.5	23.9	6182
APR	01	34.1	27.9	20.8	17.3	718
	04	32.7	27.4	20.4	19.5	719
	07	17.6	31.4	29.5	21.5	716
	10	19.9	27.5	28.6	24.1	714
	13	15.6	32.4	32.0	20.0	716
	16	15.5	36.4	29.4	18.8	718
	19	18.9	34.7	27.2	19.2	718
	22	24.6	38.7	21.0	15.7	720
	ALL	22.4	32.0	26.1	19.5	5739

## 11 - SKY COVER

013025 ROTA, SPAIN  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
MAY	01	42.7	30.4	15.7	11.2	744
	04	42.7	28.9	15.7	12.6	744
	07	26.4	27.2	29.1	17.4	740
	10	25.9	27.7	25.5	20.9	741
	13	21.5	36.5	25.2	16.8	739
	16	21.6	37.6	25.3	15.5	742
	19	26.2	37.0	22.9	13.9	741
	22	32.1	37.9	19.4	10.6	744
	ALL	29.9	32.9	22.3	14.9	5935
JUN	01	52.4	27.7	12.9	7.0	719
	04	47.1	29.3	13.7	9.9	720
	07	31.7	30.3	24.1	13.9	719
	10	33.5	26.2	24.7	15.6	720
	13	31.7	36.7	21.7	9.9	714
	16	35.5	38.8	17.9	7.8	716
	19	41.7	33.1	18.1	7.2	720
	22	38.7	38.8	15.2	7.4	719
	ALL	39.0	32.6	18.5	9.8	5747
JUL	01	75.9	15.1	6.2	2.8	744
	04	70.2	16.2	9.2	4.4	742
	07	53.4	23.5	15.2	7.8	741
	10	55.3	22.2	13.8	8.7	739
	13	58.5	29.1	8.4	4.1	739
	16	67.0	23.8	6.3	3.0	736
	19	71.8	21.2	5.3	1.8	742
	22	70.4	22.4	5.5	1.6	744
	ALL	65.3	21.7	8.7	4.3	5927
AUG	01	76.9	15.2	5.8	2.2	744
	04	75.0	15.7	6.2	3.1	743
	07	50.8	33.6	10.4	5.3	742
	10	55.7	24.9	14.5	4.8	743
	13	59.6	28.0	9.6	2.7	738
	16	62.9	27.1	7.8	2.2	741
	19	67.0	22.2	7.7	3.1	740
	22	71.5	20.2	6.7	1.6	744
	ALL	64.9	23.4	8.6	3.1	5935



## 11 - SKY COVER

013025 ROTA, SPAIN  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
SEP	01	52.1	27.2	13.9	6.8	720
	04	50.7	26.8	15.8	6.7	720
	07	32.5	37.0	23.3	7.1	716
	10	31.3	32.3	25.4	11.1	713
	13	29.1	38.2	23.5	9.2	715
	16	31.4	39.8	21.5	7.3	713
	19	32.6	40.3	20.6	6.4	717
	22	47.2	33.5	12.5	6.8	720
	ALL	38.4	34.4	19.6	7.7	5734
OCT	01	39.8	31.8	16.5	11.9	805
	04	41.3	28.1	16.7	13.9	804
	07	30.9	31.8	23.3	14.0	806
	10	26.8	28.4	26.1	18.7	802
	13	21.1	34.2	27.8	17.0	802
	16	19.9	37.6	26.5	16.1	801
	19	21.4	36.0	27.7	14.9	805
	22	35.2	31.5	20.0	13.3	806
	ALL	29.5	32.4	23.1	15.0	6431
NOV	01	34.5	27.9	18.7	18.8	780
	04	35.2	26.9	18.0	19.9	778
	07	32.1	29.5	20.0	18.4	779
	10	20.0	28.2	27.6	24.1	779
	13	18.3	30.2	29.1	22.4	777
	16	16.3	30.9	30.2	22.6	779
	19	15.3	34.1	31.2	19.5	780
	22	29.9	29.0	19.7	21.3	778
	ALL	25.2	29.6	24.3	20.9	6230
DEC	01	33.5	26.7	19.1	20.8	803
	04	35.7	24.3	17.4	22.6	804
	07	33.0	25.0	18.4	23.6	805
	10	19.3	24.2	29.9	26.7	799
	13	19.3	25.9	28.8	26.0	803
	16	14.2	31.2	27.5	27.2	805
	19	15.4	30.6	29.1	24.9	804
	22	29.4	27.7	19.7	23.3	804
	ALL	25.0	26.9	23.7	24.4	6427

# 11 - SKY COVER

013025 ROTA, SPAIN  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
ANN	01	44.4	25.9	15.5	14.2	8971
	04	43.6	25.2	15.6	15.7	8965
	07	32.6	28.8	21.4	17.3	8957
	10	28.7	26.1	24.6	20.6	8935
	13	27.0	30.7	24.1	18.2	8934
	16	27.0	32.7	22.9	17.4	8941
	19	29.5	31.1	23.4	16.0	8962
	22	37.9	30.6	16.7	14.7	8972
	ALL	33.8	28.9	20.5	16.8	71637

## 12 - RELATIVE HUMIDITY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
JAN											
01	100.0	100.0	100.0	99.8	99.1	95.3	85.3	60.0	29.4	82.7	866
04	100.0	100.0	100.0	99.9	99.2	96.1	87.9	66.0	35.7	84.6	863
07	100.0	100.0	100.0	100.0	99.2	97.0	88.9	72.1	39.0	85.7	865
10	100.0	100.0	100.0	100.0	98.5	95.1	86.8	65.9	31.9	84.0	865
13	100.0	100.0	100.0	97.5	92.5	76.2	50.3	24.8	7.7	70.7	867
16	100.0	100.0	98.8	95.0	84.1	63.3	38.3	20.1	5.7	66.4	867
19	100.0	100.0	100.0	99.1	96.5	86.6	65.9	38.2	12.5	75.5	866
22	100.0	100.0	100.0	99.7	98.4	93.5	79.5	53.2	24.6	80.6	865
ALL	100.0	100.0	99.9	98.9	95.9	87.9	72.9	50.0	23.3	78.8	6924
FEB											
01	100.0	100.0	100.0	99.7	98.2	94.8	83.4	52.7	19.5	80.6	790
04	100.0	100.0	100.0	99.9	99.1	96.3	86.7	61.3	28.2	83.0	790
07	100.0	100.0	100.0	100.0	99.5	96.7	87.6	66.3	31.6	84.1	790
10	100.0	100.0	100.0	100.0	98.5	94.7	82.4	53.5	21.9	81.1	790
13	100.0	100.0	100.0	96.8	88.9	67.3	41.0	20.3	6.1	67.8	790
16	100.0	100.0	98.9	93.5	79.4	56.2	34.7	18.0	4.3	64.2	790
19	100.0	100.0	99.7	98.7	92.2	78.4	50.8	25.8	6.3	70.9	790
22	100.0	100.0	100.0	99.6	96.8	91.9	74.4	43.0	14.6	77.9	790
ALL	100.0	100.0	99.8	98.5	94.1	84.5	67.6	42.6	16.6	76.2	6320
MAR											
01	100.0	100.0	100.0	99.3	95.9	89.2	73.4	45.6	13.5	77.4	868
04	100.0	100.0	99.8	99.5	97.5	91.7	80.6	53.9	22.0	80.3	868
07	100.0	100.0	100.0	99.5	98.6	95.0	85.4	59.8	26.7	82.4	868
10	100.0	100.0	99.8	99.4	95.4	83.8	63.0	34.4	10.8	74.4	868
13	100.0	99.8	97.9	90.9	74.2	49.4	26.6	12.3	3.5	61.0	868
16	100.0	99.9	95.9	86.8	68.2	45.3	24.1	11.1	3.0	58.9	868
19	100.0	100.0	98.7	94.4	82.8	62.1	39.1	17.2	2.4	65.3	868
22	100.0	100.0	99.7	98.6	94.5	85.5	66.0	34.6	9.3	74.6	868
ALL	100.0	100.0	99.0	96.1	88.4	75.2	57.3	33.6	11.4	71.8	6944
APR											
01	100.0	100.0	99.4	98.6	95.4	84.6	68.1	41.0	10.5	75.5	840
04	100.0	100.0	99.6	99.0	96.9	90.0	76.9	50.7	18.2	78.9	840
07	100.0	100.0	99.8	99.4	97.7	92.5	82.5	57.3	24.9	81.3	840
10	100.0	100.0	99.5	96.2	87.1	71.8	44.3	20.5	5.2	68.2	840
13	100.0	99.8	93.9	82.3	68.9	46.8	19.9	7.4	1.3	57.6	840
16	100.0	99.0	93.0	82.1	67.1	41.4	14.6	5.7	1.0	55.9	840
19	100.0	99.8	96.9	91.1	78.7	58.7	28.1	10.0	1.3	62.0	840
22	100.0	100.0	99.3	96.8	92.4	79.9	61.8	31.9	5.1	72.4	840
ALL	100.0	99.8	97.7	93.2	85.5	70.7	49.5	28.1	8.4	69.0	6720

## 12 - RELATIVE HUMIDITY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
<b>MAY</b>											
01	100.0	99.9	99.2	96.0	90.2	79.5	62.2	33.5	6.5	72.3	868
04	100.0	99.9	99.7	98.2	94.6	85.7	68.7	40.0	10.1	75.3	868
07	100.0	100.0	99.7	99.0	95.7	89.9	76.4	47.6	16.1	78.3	868
10	100.0	99.8	97.5	90.5	75.1	52.7	26.9	10.3	2.0	61.1	867
13	100.0	98.3	91.5	76.6	60.3	33.6	13.7	4.8	1.5	53.6	868
16	100.0	98.4	92.6	78.1	59.3	32.4	12.3	2.8	.8	53.3	868
19	99.9	99.2	95.2	87.9	75.2	52.5	21.9	5.9	1.4	59.5	868
22	100.0	99.8	98.4	95.0	89.4	80.4	58.9	24.9	3.9	70.7	868
ALL	100.0	99.4	96.7	90.2	80.0	63.3	42.6	21.2	5.3	65.5	6943
<b>JUN</b>											
01	100.0	99.9	99.5	96.2	88.0	77.9	64.2	39.9	6.8	72.8	840
04	100.0	100.0	99.9	97.6	91.9	84.2	71.5	47.7	11.3	76.1	840
07	100.0	100.0	99.5	98.5	95.0	88.7	76.4	51.5	16.9	78.4	840
10	100.0	99.8	97.6	88.9	74.3	54.5	28.5	9.5	1.9	60.8	840
13	100.0	99.0	91.7	79.8	63.6	38.0	13.5	3.8	.8	54.4	840
16	100.0	98.9	92.4	81.4	61.2	36.0	10.2	3.6	1.0	53.9	840
19	100.0	99.8	96.1	86.4	76.0	54.5	20.5	4.5	.6	59.3	840
22	100.0	99.9	99.3	93.5	87.1	80.2	62.3	29.4	2.9	70.9	840
ALL	100.0	99.7	97.0	90.3	79.6	64.2	43.4	23.7	5.3	65.8	6720
<b>JUL</b>											
01	100.0	100.0	99.0	94.9	86.2	75.2	60.1	36.9	6.5	71.5	867
04	100.0	100.0	99.5	96.0	90.3	81.6	66.9	43.0	11.9	74.5	868
07	100.0	100.0	99.7	97.2	93.8	86.2	70.6	48.3	15.7	76.7	868
10	100.0	99.9	96.7	85.6	69.9	48.2	26.4	7.6	.2	58.7	868
13	100.0	98.4	90.4	75.7	56.3	30.9	9.3	1.2	.0	51.7	868
16	100.0	98.2	88.9	71.9	52.4	26.6	5.9	.7	.0	50.0	868
19	100.0	99.4	93.1	85.1	73.6	47.8	15.1	1.2	.0	57.1	867
22	100.0	100.0	98.2	94.2	88.1	78.9	62.1	26.6	1.8	70.3	868
ALL	100.0	99.5	95.7	87.6	76.3	59.4	39.6	20.7	4.5	63.8	6942
<b>AUG</b>											
01	100.0	100.0	99.8	96.2	89.9	78.0	60.5	35.4	6.9	72.3	868
04	100.0	100.0	99.8	97.8	92.2	81.6	65.8	41.6	12.9	74.6	868
07	100.0	100.0	99.9	99.2	95.2	86.2	71.3	47.9	14.8	76.9	867
10	100.0	99.8	97.6	88.0	69.8	49.1	26.2	8.0	.9	59.5	867
13	100.0	99.0	89.6	76.3	56.2	30.1	8.5	.7	.3	51.7	868
16	100.0	98.2	90.8	74.1	53.5	26.2	5.8	.6	.2	50.4	868
19	100.0	99.7	95.7	87.0	73.8	52.5	20.6	2.9	.2	58.7	868
22	100.0	99.9	99.4	96.0	88.7	78.3	61.3	27.5	3.7	70.7	868
ALL	100.0	99.6	96.6	89.3	77.4	60.2	40.0	20.6	5.0	64.3	6942

## 12 - RELATIVE HUMIDITY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
SEP											
01	100.0	100.0	99.6	97.6	91.4	79.9	62.9	38.6	9.9	73.7	840
04	100.0	100.0	99.8	98.0	92.9	85.6	66.9	43.9	13.9	76.1	840
07	100.0	100.0	99.8	98.6	95.1	87.5	73.5	52.6	19.3	78.3	840
10	100.0	100.0	98.7	92.9	78.6	56.2	34.8	14.0	2.7	63.4	840
13	100.0	99.0	94.4	76.8	57.9	35.7	13.1	2.9	.7	53.7	840
16	100.0	99.3	93.9	78.9	58.2	34.9	10.7	1.3	.4	53.3	840
19	100.0	99.9	97.7	89.9	75.8	59.4	31.8	6.0	.4	61.5	839
22	100.0	99.9	99.5	96.2	89.5	79.0	61.5	33.0	4.4	71.8	840
ALL	100.0	99.8	97.9	91.1	79.9	64.8	44.4	24.0	6.5	66.5	6719
OCT											
01	100.0	100.0	100.0	99.2	96.7	89.6	68.8	44.0	15.7	77.1	896
04	100.0	100.0	100.0	99.4	97.1	91.2	75.3	50.1	20.0	79.2	898
07	100.0	100.0	100.0	99.7	97.6	92.9	79.5	57.2	23.8	80.9	898
10	100.0	100.0	99.9	98.1	90.5	75.3	48.7	26.9	6.2	70.2	898
13	100.0	99.7	95.4	86.0	65.4	42.3	20.8	8.0	1.2	57.5	898
16	100.0	99.3	95.5	85.9	65.3	43.8	22.6	8.1	2.1	57.6	898
19	100.0	99.8	98.6	95.9	88.0	70.2	46.1	23.4	3.1	68.1	898
22	100.0	100.0	99.9	98.6	96.1	86.7	64.6	41.0	11.9	75.5	898
ALL	100.0	99.8	98.7	95.3	87.1	74.0	53.3	32.3	10.5	70.8	7182
NOV											
01	100.0	100.0	100.0	99.8	97.8	92.3	79.5	55.9	23.6	80.5	870
04	100.0	100.0	100.0	99.8	98.5	93.8	82.2	59.7	27.9	82.1	870
07	100.0	100.0	100.0	99.8	99.1	95.4	84.9	62.4	33.8	83.5	870
10	100.0	100.0	100.0	99.3	96.6	89.4	75.2	48.9	18.3	78.5	870
13	100.0	99.9	99.2	94.1	80.5	60.1	34.3	16.6	4.4	64.6	870
16	100.0	99.9	97.2	90.3	76.3	52.3	29.0	15.2	4.8	62.2	870
19	100.0	100.0	99.9	97.0	93.1	82.3	59.3	32.9	9.4	72.9	870
22	100.0	100.0	99.9	99.2	96.2	90.2	74.5	48.9	17.4	78.4	869
ALL	100.0	100.0	99.5	97.4	92.3	82.0	64.9	42.5	17.4	75.3	6959
DEC											
01	100.0	100.0	99.9	99.9	99.4	97.0	86.7	60.2	25.1	82.6	899
04	100.0	100.0	100.0	99.9	99.6	97.8	89.9	66.3	33.1	84.3	898
07	100.0	100.0	99.9	99.9	99.9	98.7	91.5	69.8	36.5	85.5	898
10	100.0	100.0	100.0	99.9	99.3	97.7	88.5	63.7	28.2	83.5	898
13	100.0	99.9	99.9	99.1	93.8	77.6	48.8	23.1	7.0	70.5	897
16	100.0	99.9	99.3	96.1	86.0	62.6	36.4	18.3	4.2	65.9	898
19	100.0	100.0	99.9	99.6	98.1	89.1	69.2	36.7	8.2	75.9	899
22	100.0	100.0	99.9	99.8	99.0	96.7	83.9	53.6	18.5	80.7	899
ALL	100.0	100.0	99.8	99.3	96.9	89.6	74.4	49.0	20.1	78.6	7186

## 12 - RELATIVE HUMIDITY

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
	10%	20%	30%	40%	50%	60%	70%	80%	90%		
ANN											
01	100.0	100.0	99.7	98.1	94.0	86.1	71.2	45.3	14.5	76.6	10312
04	100.0	100.0	99.8	98.7	95.8	89.6	76.6	52.0	20.5	79.1	10311
07	100.0	100.0	99.8	99.2	97.2	92.2	80.7	57.7	24.9	81.0	10312
10	100.0	99.9	98.9	94.9	86.1	72.4	52.6	30.3	10.9	70.3	10311
13	100.0	99.4	95.3	86.0	71.5	49.0	25.0	10.5	2.9	59.6	10314
16	100.0	99.2	94.8	84.5	67.6	43.4	20.4	8.8	2.3	57.7	10315
19	100.0	99.8	97.6	92.7	83.7	66.2	39.2	17.1	3.8	65.6	10313
22	100.0	100.0	99.4	97.3	93.0	85.1	67.6	37.4	9.9	74.6	10313
ALL	100.0	99.8	98.2	93.9	86.1	73.0	54.2	32.4	11.2	70.5	82501

## 13 - WEATHER CONDITIONS

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/DRIZZLE	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/HAZE	BLOWING SNOW	DUST E/SAND	2 OBS. W/OBST VISION	TOTAL NO. OF OBS.
JAN	01	.5	7.6	.0	.1	.0	7.6	11.4	4.5	.0	.0	15.7	815
	04	.9	8.8	.0	.0	.2	8.8	14.3	4.6	.0	.0	18.8	820
	07	.0	9.1	.0	.0	.0	9.1	18.5	5.4	.0	.0	23.7	822
	10	.0	8.5	.0	.0	.0	8.3	19.9	11.2	.0	.0	30.6	828
	13	.0	8.0	.0	.0	.0	8.0	5.7	11.3	.0	.0	16.7	820
	16	.1	9.4	.0	.0	.0	9.4	3.2	8.2	.0	.0	11.4	816
	19	.5	8.2	.0	.0	.0	8.2	5.8	10.2	.0	.0	15.1	817
	22	.2	7.5	.0	.1	.0	7.2	6.7	5.5	.0	.0	11.9	817
	ALL	.3	8.4	.0	.0	.0	8.3	10.7	7.6	.0	.0	18.0	6555
FEB	01	.0	7.8	.0	.0	.0	7.8	9.2	5.1	.0	.0	14.3	769
	04	.4	8.7	.0	.0	.0	8.3	10.9	4.3	.0	.0	15.1	769
	07	.1	8.6	.0	.1	.0	8.8	14.1	6.1	.0	.0	19.9	775
	10	.3	8.4	.0	.0	.0	8.4	13.7	10.8	.0	.0	24.4	776
	13	.3	9.3	.0	.0	.0	9.3	4.8	7.0	.0	.0	11.8	772
	16	.1	9.1	.0	.0	.0	9.1	3.1	5.1	.0	.0	8.2	772
	19	.3	8.9	.0	.0	.0	8.8	3.8	6.2	.0	.0	10.0	771
	22	.5	9.1	.0	.0	.0	8.8	4.9	5.5	.0	.0	10.3	769
	ALL	.2	8.7	.0	.0	.0	8.7	8.1	6.3	.0	.0	14.2	6173
MAR	01	.1	6.9	.0	.0	.0	6.9	4.2	6.4	.0	.0	10.6	809
	04	.5	5.3	.0	.1	.0	5.4	6.9	5.3	.0	.0	12.0	816
	07	.2	6.0	.0	.0	.0	6.0	10.0	6.5	.0	.0	16.5	813
	10	.0	6.3	.0	.0	.0	6.3	7.4	10.7	.0	.0	17.9	810
	13	.2	5.9	.0	.0	.0	5.9	1.4	8.5	.0	.0	9.9	809
	16	.0	7.2	.0	.1	.0	7.3	.9	6.0	.0	.0	6.9	811
	19	.2	5.8	.0	.0	.0	5.8	.9	7.8	.0	.0	8.6	810
	22	.5	6.8	.0	.0	.0	6.8	2.0	7.1	.0	.0	9.1	813
	ALL	.2	6.3	.0	.0	.0	6.3	4.2	7.3	.0	.0	11.4	6491
APR	01	.2	4.2	.0	.0	.1	4.2	2.1	6.5	.0	.2	8.8	817
	04	.2	6.3	.0	.0	.0	6.3	6.0	7.4	.0	.2	13.4	820
	07	.2	6.3	.0	.0	.0	6.2	13.5	8.2	.0	.4	21.7	822
	10	.1	6.5	.0	.0	.0	6.3	3.8	9.7	.0	.2	13.8	821
	13	.1	5.4	.0	.0	.0	5.4	1.0	8.6	.0	.2	9.8	818
	16	.2	5.0	.0	.0	.0	5.0	.6	5.8	.0	.2	6.6	815
	19	.1	4.3	.0	.0	.0	4.3	1.1	6.6	.0	.2	8.0	817
	22	.4	4.8	.0	.0	.0	4.8	1.3	7.0	.0	.2	8.6	816
	ALL	.2	5.3	.0	.0	.0	5.3	3.7	7.5	.0	.3	11.3	6546

## 13 - WEATHER CONDITIONS

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	ISM	RAIN E/DR	FREEZE RAIN E	SNOW E/DR	HAIR	% OF OBS WITH PRECIP	FOG	SMOKE E/DR	BLOWING SNOW	DUST E/DR	% OBS. W/OBS	TOTAL NO. OF OBS.
MAY	01	.2	3.4	.0	.0	.0	3.4	2.5	6.3	.0	.0	8.7	841
	04	.5	3.7	.0	.0	.0	3.7	3.9	6.9	.0	.0	10.7	840
	07	.5	4.5	.0	.0	.0	4.5	9.1	10.0	.0	.0	18.9	848
	10	.1	3.8	.0	.0	.0	3.8	1.8	9.9	.0	.1	11.8	842
	13	.2	2.7	.0	.0	.0	2.7	.4	7.8	.0	.0	8.2	841
	16	.1	2.3	.0	.0	.0	2.3	.1	6.8	.0	.1	7.0	840
	19	.1	2.0	.0	.0	.0	2.0	.1	7.9	.0	.0	8.0	840
	22	.1	2.9	.0	.0	.0	2.9	1.3	8.1	.0	.0	9.3	841
	ALL	.2	3.2	.0	.0	.0	3.2	2.4	8.0	.0	.0	10.3	6733
JUN	01	.1	.9	.0	.0	.0	.7	2.6	13.1	.0	.0	15.7	814
	04	.4	1.7	.0	.0	.0	1.7	5.4	11.9	.0	.0	17.3	816
	07	.5	2.3	.0	.0	.0	2.3	12.0	15.0	.0	.1	27.0	820
	10	.1	2.8	.0	.0	.0	2.8	2.7	16.0	.0	.0	18.7	819
	13	.2	1.6	.0	.0	.0	1.6	.7	15.6	.0	.0	16.3	815
	16	.1	1.2	.0	.0	.0	1.2	.7	14.2	.0	.0	15.0	815
	19	.2	1.1	.0	.0	.0	1.1	.5	13.9	.0	.0	14.4	814
	22	.1	.9	.0	.0	.0	.9	1.6	15.2	.0	.1	16.8	816
	ALL	.2	1.6	.0	.0	.0	1.5	3.3	14.4	.0	.0	17.6	6529
JUL	01	.0	.2	.0	.0	.0	.2	3.9	14.7	.0	.1	18.7	843
	04	.4	.6	.0	.0	.0	.6	7.8	12.9	.0	.0	20.6	845
	07	.1	.4	.0	.0	.0	.4	12.2	19.8	.0	.0	31.7	852
	10	.1	.1	.0	.0	.0	.1	2.2	21.2	.0	.0	23.3	848
	13	.1	.5	.0	.0	.0	.5	.5	19.0	.0	.0	19.4	847
	16	.2	.4	.0	.0	.0	.4	.0	15.4	.0	.1	15.5	845
	19	.2	.1	.0	.0	.0	.1	.1	15.0	.0	.0	15.2	844
	22	.2	.1	.0	.0	.0	.1	1.5	18.7	.0	.0	20.1	844
	ALL	.2	.3	.0	.0	.0	.3	3.5	17.1	.0	.0	20.6	6768
AUG	01	.0	.5	.0	.0	.0	.5	5.0	10.5	.0	.0	15.1	841
	04	.0	.7	.0	.0	.0	.7	7.0	10.8	.0	.0	17.7	841
	07	.1	.6	.0	.0	.0	.6	13.6	15.0	.0	.0	27.7	847
	10	.1	.8	.0	.0	.0	.8	2.6	18.7	.0	.1	21.1	844
	13	.1	.7	.0	.0	.0	.7	.1	14.8	.0	.0	14.9	839
	16	.1	.4	.0	.0	.0	.4	.2	11.7	.0	.0	11.9	837
	19	.0	.1	.0	.0	.0	.1	.7	12.2	.0	.0	12.9	839
	22	.0	.1	.0	.0	.0	.1	2.7	12.4	.0	.0	15.0	840
	ALL	.1	.5	.0	.0	.0	.5	4.0	13.3	.0	.0	17.1	6728



## 13 - WEATHER CONDITIONS

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OR DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS. W/OBSY VISION	TOTAL NO. OF OBS.
SEP	01	.6	2.2	.0	.0	.0	2.2	3.9	8.0	.0	.0	11.8	816
	04	.4	2.3	.0	.0	.0	2.3	7.0	7.6	.0	.0	14.4	818
	07	.5	2.1	.0	.0	.0	2.1	11.9	9.0	.0	.0	20.3	821
	10	.2	2.0	.0	.0	.0	2.0	3.1	12.8	.0	.1	15.9	818
	13	.2	1.7	.0	.0	.0	1.7	.2	9.3	.0	.1	9.6	816
	16	.1	1.7	.0	.0	.0	1.7	.2	8.1	.0	.0	8.4	813
	19	.0	.6	.0	.0	.0	.6	.6	8.7	.0	.0	9.3	815
	22	.1	1.1	.0	.0	.0	1.1	3.1	9.2	.0	.0	12.1	816
	ALL	.3	1.7	.0	.0	.0	1.7	3.8	9.1	.0	.0	12.7	6533
OCT	01	.6	4.8	.0	.0	.0	4.8	4.8	4.4	.0	.0	9.2	840
	04	.8	4.9	.0	.0	.0	4.9	5.9	5.3	.0	.1	11.4	842
	07	.6	4.3	.0	.0	.0	4.3	9.1	5.2	.0	.1	14.3	842
	10	.6	3.9	.0	.0	.0	3.9	5.2	10.0	.0	.1	15.1	846
	13	.5	4.9	.0	.0	.0	4.9	.6	5.6	.0	.1	6.3	838
	16	.6	5.5	.0	.0	.0	5.5	.2	4.5	.0	.0	4.8	837
	19	.2	3.8	.0	.0	.0	3.7	.8	6.3	.0	.0	6.9	839
	22	.4	4.3	.0	.0	.0	4.3	2.5	4.0	.0	.0	6.5	843
	ALL	.5	4.5	.0	.0	.0	4.5	3.7	5.7	.0	.1	9.3	6727
NOV	01	.4	7.3	.0	.0	.0	7.3	5.9	4.0	.0	.0	9.8	830
	04	.8	6.3	.0	.0	.0	6.1	10.0	4.9	.0	.0	14.9	831
	07	1.3	8.3	.0	.0	.0	8.3	12.6	5.3	.0	.0	17.6	834
	10	.2	7.1	.0	.0	.0	7.0	10.0	13.1	.0	.0	22.9	826
	13	.4	7.9	.0	.0	.0	7.9	1.7	6.1	.0	.0	7.6	824
	16	.5	9.9	.0	.0	.0	9.8	.6	4.4	.0	.0	5.0	826
	19	.5	8.3	.0	.0	.0	8.3	1.8	7.1	.0	.0	8.8	822
	22	.5	7.6	.0	.0	.0	7.6	3.6	4.6	.0	.0	8.2	827
	ALL	.6	7.8	.0	.0	.0	7.8	5.8	6.2	.0	.0	11.9	6620
DEC	01	.4	7.6	.0	.1	.0	7.6	8.6	4.5	.0	.0	13.1	850
	04	.5	10.2	.0	.1	.1	10.3	12.4	4.9	.0	.0	17.0	857
	07	.8	8.8	.0	.0	.0	8.8	16.0	6.5	.0	.0	22.1	852
	10	.6	10.7	.0	.0	.0	10.5	17.3	12.6	.0	.0	28.9	856
	13	.1	8.4	.0	.0	.0	8.4	4.4	10.3	.0	.0	14.6	847
	16	.2	9.1	.0	.0	.0	9.1	2.7	7.6	.0	.0	10.3	843
	19	.4	8.6	.0	.0	.0	8.6	4.4	6.7	.0	.0	11.0	840
	22	.5	7.9	.0	.1	.0	8.1	6.0	5.1	.0	.0	11.1	844
	ALL	.4	8.9	.0	.0	.0	8.9	9.0	7.3	.0	.0	16.0	6789

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OR DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OBS. W/OBST VISION	TOTAL NO. OF OBS.
JAN	ALL	.3	8.4	.0	.0*	.0*	8.3	10.7	7.6	.0	.0	18.0	6555
FEB	ALL	.2	8.7	.0	.0*	.0	8.7	8.1	6.3	.0	.0	14.2	6173
MAR	ALL	.2	6.3	.0	.0*	.0	6.3	4.2	7.3	.0	.0	11.4	6491
APR	ALL	.2	5.3	.0	.0	.0*	5.3	3.7	7.5	.0	.3	11.3	6546
MAY	ALL	.2	3.2	.0	.0	.0	3.2	2.4	8.0	.0	.0*	10.3	6733
JUN	ALL	.2	1.6	.0	.0	.0	1.5	3.3	14.4	.0	.0*	17.6	6529
JUL	ALL	.2	.3	.0	.0	.0	.3	3.5	17.1	.0	.0*	20.6	6768
AUG	ALL	.1	.5	.0	.0	.0	.5	4.0	13.3	.0	.0*	17.1	6728
SEP	ALL	.3	1.7	.0	.0	.0	1.7	3.8	9.1	.0	.0*	12.7	6533
OCT	ALL	.5	4.5	.0	.0	.0	4.5	3.7	5.7	.0	.1	9.3	6727
NOV	ALL	.6	7.8	.0	.0	.0	7.8	5.8	6.2	.0	.0	11.9	6620
DEC	ALL	.4	8.9	.0	.0*	.0*	8.9	9.0	7.3	.0	.0	16.0	6789
TOTALS		.3	4.7	.0	.0*	.0*	4.7	5.2	9.2	.0	.0*	14.2	79192

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS " PELLET	HAIL SHALL	THUNDER TORNADO	FOG	ICE GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	1.4	1.0	.0	.0	.2	.0	.0	.4	6.7	5.9	8.1	.0	.0	69.5
NNE	1.0	.6	.0	.0	.0	.0	.0	.0	3.5	5.4	8.2	.0	.0	71.2
NE	.6	.2	.6	.0	.0	.0	.0	.0	6.5	5.5	7.7	.0	.0	72.5
ENE	.5	1.1	.0	.0	.0	.0	.0	.0	8.7	9.8	8.7	.0	.0	67.4
E	2.6	1.6	.3	.0	.0	.0	.0	.1	6.1	8.2	4.3	.0	.0	74.3
ESE	8.4	2.6	.2	.0	.0	.0	.0	.2	3.1	2.4	3.4	.0	.0	81.3
SE	9.4	2.9	.4	.0	.0	.4	.0	.0	3.6	.7	5.8	.0	.0	76.8
SSE	12.5	6.9	.0	.0	.0	.0	.0	.6	4.4	2.5	10.6	.0	.0	65.0
S	13.9	7.6	1.7	.0	.0	.0	.0	.3	4.9	6.3	9.0	.0	.0	58.7
SSW	16.0	9.3	2.5	.0	.0	.0	.4	1.7	6.8	3.0	10.1	.0	.0	50.2
SW	10.7	8.9	6.4	.0	.0	.0	.0	.7	8.2	4.3	8.9	.0	.0	56.2
WSW	8.0	4.9	8.0	.0	.0	.0	.0	.9	6.8	1.5	6.8	.0	.0	65.1
W	3.7	4.5	2.2	.0	.0	.2	.0	.6	2.4	1.5	6.9	.0	.0	73.8
WNW	1.3	1.6	1.3	.0	.0	.0	.0	.0	2.6	2.9	5.2	.0	.0	76.5
NW	1.3	1.3	.3	.0	.0	.0	.0	.0	1.5	2.0	4.5	.0	.0	81.4
NNW	.0	.7	.3	.0	.0	.0	.0	.0	2.0	1.6	5.9	.0	.0	77.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	2.0	.7	.4	.0	.0	.0	.0	.0	9.1	8.9	11.3	.0	.0	66.5
TOTALS	291	179	80	0	1	2	1	18	363	339	500	0	0	4912
% TOTAL	4.2	2.6	1.2	.0	.0*	.0*	.0*	.3	5.2	4.9	7.2	.0	.0	70.7

TOTAL NUMBER OF OBSERVATIONS : 6944

NOTES : \* = PERCENT < .05

# 14 - PERCENTAGE FREQUENCY OF WIND DIRECTION VERSUS WEATHER CONDITIONS (FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS " PELLET	HAIL SMALL TORNADO HAIL SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.0	1.0	.3	.0	.0	.0	.0	3.2	3.5	5.7	.0	.0	86.7
NNE	1.2	.5	.2	.0	.0	.0	.0	3.0	1.5	5.5	.0	.0	86.3
NE	2.2	1.2	.2	.0	.0	.0	.0	4.0	4.7	5.7	.0	.0	81.0
ENE	2.3	.3	.0	.0	.0	.0	.0	6.8	5.7	6.8	.0	.0	75.9
E	4.1	.6	.5	.0	.0	.2	.0	5.1	7.9	5.9	.0	.0	72.4
ESE	5.7	2.5	.0	.0	.0	.0	.0	2.5	2.3	5.2	.0	.0	77.7
SE	3.0	4.1	.0	.0	.0	.0	.8	1.9	1.9	5.6	.0	.0	76.3
SSE	9.7	2.3	2.3	.0	.0	.0	.6	4.0	2.9	8.6	.0	.0	65.1
S	9.6	6.9	1.6	.0	.0	.0	.0	7.4	2.5	9.6	.0	.0	63.2
SSW	15.1	7.6	1.6	.0	.0	.0	.8	4.4	2.0	13.5	.0	.0	55.4
SW	12.1	8.7	3.4	.0	.0	.0	.3	8.5	2.0	9.9	.0	.0	59.4
WSW	8.5	7.7	1.6	.0	.0	.0	.5	8.2	1.3	6.9	.0	.0	67.1
W	4.7	3.5	.6	.0	.0	.0	.5	3.2	1.1	3.8	.0	.0	83.3
WNW	2.0	3.5	.2	.0	.0	.0	.2	.7	.2	3.0	.0	.0	90.3
NW	1.2	1.5	.0	.0	.0	.0	.0	1.8	2.1	2.1	.0	.0	91.0
NNW	.4	.8	.4	.0	.0	.0	.0	3.3	1.6	4.1	.0	.0	89.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.7	.8	.0	.0	.0	.0	.0	10.5	10.2	7.1	.0	.0	68.6
TOTALS	304	192	44	0	0	1	15	291	207	386	0	0	4835
% TOTAL	4.8	3.0	.7	.0	.0	.0*	.2	4.6	3.3	6.1	.0	.0	76.5

TOTAL NUMBER OF OBSERVATIONS : 6319

NOTES :  
\* = PERCENT < .05

# 14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS

WEATHER CONDITIONS

(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAR

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS	HAIL SMALL	THUNDER TORNADO	FOG	ICE FOG GROUND	HAZE	SMOKE	BLOWING SNOW	BLOWING SAND	NO WEATHER
				FREEZE	ICE	" PELLET	HAIL SQUALLS			FOG				DUST	WEATHER
N	.8	.3	.0	.0	.0	.0	.0	.0	.8	1.3	5.7	.0	.0	.0	84.6
NNE	1.9	.3	.3	.0	.0	.0	.0	.0	3.3	1.6	6.0	.0	.0	.0	77.6
NE	1.8	.9	.3	.0	.0	.0	.0	.0	1.2	2.9	6.5	.0	.0	.0	79.8
ENE	1.6	1.3	.0	.0	.0	.0	.0	.7	3.9	4.2	9.5	.0	.0	.0	72.9
E	2.8	.8	.3	.0	.0	.0	.0	.0	3.9	3.7	4.3	.0	.0	.0	79.2
ESE	4.0	1.9	.0	.0	.0	.0	.0	.4	.9	.8	5.7	.0	.0	.0	81.1
SE	6.2	1.6	.8	.0	.0	.0	.0	.3	.8	.5	7.9	.0	.0	.0	77.5
SSE	12.7	2.8	.5	.0	.0	.0	.0	.0	3.3	2.8	8.9	.0	.0	.0	66.7
S	5.0	6.5	2.3	.0	.0	.4	.0	1.1	1.9	1.5	14.5	.0	.0	.0	66.8
SSW	7.5	8.3	1.2	.0	.0	.0	.0	.8	3.7	1.7	13.3	.0	.0	.0	65.4
SW	5.7	3.6	1.8	.0	.0	.0	.0	.0	3.2	2.5	9.5	.0	.0	.0	72.6
WSW	5.3	3.1	2.4	.0	.0	.0	.0	.0	1.3	2.4	8.1	.0	.0	.0	75.3
W	2.0	2.7	.8	.0	.0	.1	.0	.5	.5	.2	5.7	.0	.0	.0	79.1
WNW	.2	1.7	.0	.0	.0	.0	.0	.2	.2	.4	4.4	.0	.0	.0	85.9
NW	2.0	1.1	.0	.0	.0	.0	.0	.0	.9	.2	3.3	.0	.0	.0	83.6
NNW	.8	.8	.5	.0	.0	.0	.0	.0	.8	.5	4.4	.0	.0	.0	83.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	3.0	.8	.8	.0	.0	.0	.0	.0	7.9	7.6	10.4	.0	.0	.0	66.2
TOTALS	222	140	45	0	0	2	0	15	141	131	474	0	0	0	5393
% TOTAL	3.2	2.0	.6	.0	.0	.0*	.0	.2	2.0	1.9	6.8	.0	.0	.0	77.7

TOTAL NUMBER OF OBSERVATIONS : 6943

NOTES :  
\* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : APR

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL SQUALLS	THUNDER TORNADO	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	2.2	1.1	.4	.0	.0	.0	.0	.0	.7	2.2	2.5	.0	.4	89.5
NNE	.4	.4	.4	.0	.0	.0	.0	.0	1.8	1.8	4.0	.0	.0	85.0
NE	2.7	1.1	.0	.0	.0	.0	.0	.0	2.3	1.1	3.8	.0	.0	84.4
ENE	2.3	1.3	.3	.0	.0	.0	.0	.0	3.6	3.6	4.7	.0	.3	80.5
E	2.7	1.4	.0	.0	.0	.0	.0	.2	2.7	6.3	7.0	.0	.9	77.4
ESE	2.6	1.0	.0	.0	.0	.0	.0	.0	.5	.3	6.8	.0	.5	86.6
SE	2.0	2.0	.0	.0	.0	.0	.0	.0	.8	2.8	12.3	.0	.0	78.7
SSE	3.0	7.2	.0	.0	.0	.0	.0	.6	1.8	2.4	11.4	.0	.0	71.7
S	5.2	5.2	.9	.0	.0	.0	.0	.3	2.3	3.4	9.2	.0	.0	71.3
SSW	7.2	5.6	.3	.0	.0	.0	.0	1.6	1.9	1.6	11.2	.0	.0	68.8
SW	5.3	3.6	1.2	.0	.0	.0	.0	.7	1.4	1.2	11.4	.0	.0	72.9
WSW	3.3	3.3	.6	.0	.0	.0	.0	.0	.2	.9	8.5	.0	.0	80.8
W	2.1	2.0	.2	.0	.0	.0	.0	.1	.4	.5	6.7	.0	.5	86.2
WNW	.8	1.2	.0	.0	.0	.0	.0	.0	.6	.0	4.6	.0	.2	91.7
NW	2.3	1.1	.8	.0	.0	.0	.0	.0	.8	1.4	3.1	.0	.3	90.7
NNW	1.3	.4	.0	.0	.0	.0	.0	.4	.0	1.7	4.2	.0	.0	91.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.5	.7	.0	.0	.0	.0	.0	.2	6.2	6.2	12.8	.0	.2	70.2
TOTALS	1.95	145	20	0	0	0	1	14	102	139	487	0	17	5476
% TOTAL	2.8	2.2	.3	.0	.0	.0	.0*	.2	1.5	2.1	7.3	.0	.3	81.6

TOTAL NUMBER OF OBSERVATIONS : 6708

NOTES : \* = PERCENT < .05

# 14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN	SLEET " SHOWERS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.4		.0	.0	.0	.0	.0	.0	1.7	.0	4.7	.0	.0	89.4
NNE	.5		.0	.0	.0	.0	.0	.0	.0	2.1	5.3	.0	.0	86.8
NE	2.4	.0	.0	.0	.0	.0	.0	.0	3.5	1.2	8.2	.0	.0	84.7
ENE	.4	.4	.4	.0	.0	.0	.0	.0	3.9	1.7	5.6	.0	.0	85.0
E	1.4	.5	.2	.0	.0	.0	.0	.0	2.8	3.8	6.9	.0	.0	82.1
ESE	1.3	.8	.0	.0	.0	.0	.0	.0	1.3	.3	4.4	.0	.3	88.7
SE	1.4	.7	.0	.0	.0	.0	.0	.4	1.4	.4	4.2	.0	.0	90.5
SSE	1.3	3.9	.0	.0	.0	.0	.0	1.3	2.1	.4	10.7	.0	.0	79.4
S	1.7	4.0	1.0	.0	.0	.0	.0	.5	3.5	1.5	16.7	.0	.0	72.5
SSW	2.3	3.1	1.3	.0	.0	.0	.0	.5	2.3	.5	15.2	.0	.0	71.6
SW	1.4	3.5	1.2	.0	.0	.0	.0	.6	.4	.4	12.4	.0	.0	79.4
WSW	.8	3.4	.3	.0	.0	.0	.0	.0	.6	.0	8.6	.0	.0	84.3
W	.6	1.1	.2	.0	.0	.0	.0	.2	.7	.1	6.4	.0	.1	86.7
WNW	.9	.9	.0	.0	.0	.0	.0	.2	.2	.0	3.6	.0	.0	89.6
NW	.5	.8	.0	.0	.0	.0	.0	.0	.8	.5	3.5	.0	.0	90.3
NNW	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	2.4	.0	.0	92.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.4	.6	.0	.0	.0	.0	.0	.0	3.5	3.2	10.3	.0	.0	79.1
TOTALS	79	112	22	0	0	0	0	16	102	60	536	0	2	5825
% TOTAL	1.1	1.6	.3	.0	.0	.0	.0	.2	1.5	.9	7.7	.0	.0*	84.1

TOTAL NUMBER OF OBSERVATIONS : 6924

NOTES :  
\* = PERCENT < .05

WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUN

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FUG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.6	2.1	.0	.0	.0	.0	.0	1.4	.0	.0	3.5	.0	.0	92.9
NNE	.0	1.0	.0	.0	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	91.0
NE	.0	.7	.0	.0	.0	.0	.0	.0	.7	.0	11.8	.0	.0	84.6
ENE	.5	.0	.0	.0	.0	.0	.0	.5	1.6	4.8	12.7	.0	.0	77.2
E	.2	1.0	.0	.0	.0	.0	.0	.4	3.4	4.8	10.9	.0	.0	77.5
ESE	1.0	.5	.2	.0	.0	.0	.0	.7	.2	1.2	6.2	.0	.5	88.5
SE	.0	1.1	.0	.0	.0	.0	.0	.3	.5	.3	8.9	.0	.0	88.9
SSE	.6	.6	.0	.0	.0	.0	.0	.3	1.9	1.6	14.1	.0	.0	78.9
S	.8	1.3	.2	.0	.0	.0	.0	.2	6.5	2.1	29.1	.0	.0	57.0
SSW	2.7	1.9	.0	.0	.0	.0	.0	.3	2.1	2.1	24.5	.0	.0	66.2
SW	1.1	.9	.0	.0	.0	.0	.0	.0	.4	1.3	21.4	.0	.0	72.4
WSW	.9	1.4	.0	.0	.0	.0	.0	.0	.6	.6	13.4	.0	.0	80.1
W	.7	.3	.1	.0	.0	.0	.0	.2	.7	.4	13.1	.0	.0	80.8
WNW	.2	.7	.0	.0	.0	.0	.0	.0	.5	.5	7.9	.0	.0	86.4
NW	.4	.0	.0	.0	.0	.0	.0	.0	.4	.8	7.8	.0	.0	86.4
NNW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	4.6	.0	.0	90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.5	.0	.0	.0	.0	.0	.2	2.7	5.8	18.3	.0	.0	72.0
TOTALS	44	55	3	0	0	0	0	15	103	111	936	0	2	5268
% TOTAL	.7	.8	.05	.0	.0	.0	.0	.2	1.5	1.7	14.0	.0	.05	78.7

TOTAL NUMBER OF OBSERVATIONS : 6695

NOTES : \* = PERCENT < .05



# 14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNA DO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.8	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	12.3	.0	.0	81.5
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.4	.0	.0	81.1
NE	.0	.0	.0	.0	.0	.0	.0	1.0	3.1	1.0	14.6	.0	.0	77.1
ENE	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.0	17.6	.0	.0	73.4
E	.0	.0	.0	.0	.0	.0	.0	.2	2.5	3.6	13.9	.0	.0	77.5
ESE	.2	.6	.0	.0	.0	.0	.0	.2	.8	.8	6.9	.0	.4	84.9
SE	.0	.2	.0	.0	.0	.0	.0	.2	1.5	.5	9.7	.0	.0	86.1
SSE	.3	.0	.0	.0	.0	.0	.0	.0	3.1	3.1	17.2	.0	.0	75.8
S	.4	.4	.2	.0	.0	.0	.0	.2	7.3	2.9	26.1	.0	.0	60.5
SSW	.3	.3	.7	.0	.0	.0	.0	.0	4.1	3.8	31.1	.0	.0	59.4
SW	.2	.0	.0	.0	.0	.0	.0	.0	2.4	1.0	24.6	.0	.0	70.8
WSW	.0	.0	.1	.0	.0	.0	.0	.4	.7	1.0	20.8	.0	.0	74.6
W	.0	.0	.0	.0	.0	.0	.0	.1	.1	.6	17.2	.0	.0	78.6
WNW	.2	.0	.0	.0	.0	.0	.0	.4	.0	.2	10.7	.0	.0	87.0
NW	.0	.4	.0	.0	.0	.0	.0	.0	.8	.0	8.0	.0	.0	88.5
NNW	.0	.0	.0	.0	.0	.0	.0	.6	1.8	1.2	9.0	.0	.0	83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.5	16.4	.0	.0	76.3
TOTALS	8	8	4	0	0	0	0	12	127	113	1149	0	2	5333
* TOTAL	.1	.1	.1	.0	.0	.0	.0	.2	1.8	1.6	16.6	.0	.0*	77.1

TOTAL NUMBER OF OBSERVATIONS : 6915

NOTES :  
\* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.0	.5	.0	.0	.0	.0	.0	.0	.5	1.1	6.5	.0	.0	87.0
NNE	.8	.8	.0	.0	.0	.0	.0	.0	1.6	2.5	9.8	.0	.0	80.3
NE	.0	1.4	.0	.0	.0	.0	.0	.0	.7	.7	8.5	.0	.0	84.4
ENE	.5	.5	.0	.0	.0	.0	.0	.9	2.3	2.3	6.5	.0	.0	84.3
E	.0	.2	.0	.0	.0	.0	.0	.2	2.2	4.0	10.2	.0	.0	81.2
ESE	.2	.0	.0	.0	.0	.0	.0	.0	.4	.9	6.0	.0	.2	89.4
SE	.0	.3	.0	.0	.0	.0	.0	.0	.6	1.6	10.6	.0	.0	84.2
SSE	.3	.6	.0	.0	.0	.0	.0	.0	2.6	3.8	17.4	.0	.0	73.0
S	.0	.0	.4	.0	.0	.0	.0	.0	5.5	6.1	23.1	.0	.0	63.5
SSW	.0	.7	.0	.0	.0	.0	.0	.0	3.1	5.6	29.6	.0	.0	59.9
SW	.0	.8	.0	.0	.0	.0	.0	.0	1.6	2.2	25.0	.0	.0	69.8
WSW	.2	.4	.0	.0	.0	.0	.0	.0	.6	.9	18.1	.0	.0	77.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.3	.8	9.8	.0	.0	85.6
WNW	.0	.4	.0	.0	.0	.0	.0	.0	.2	.0	9.7	.0	.0	85.7
NW	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.5	5.3	.0	.0	88.2
NNW	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.5	.4	.0	.0	.0	.0	.0	.2	3.2	7.6	13.5	.0	.0	73.4
TOTALS	9	21	3	0	0	0	0	4	101	169	892	0	1	5532
% TOTAL	.1	.3	.0*	.0	.0	.0	.0	.1	1.5	2.4	12.9	.0	.0*	79.9

TOTAL NUMBER OF OBSERVATIONS : 6926

NOTES : PERCENT < .05  
\* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP

WIND DIR.	RAIN	RAIN SHOWRS	ORIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL SQUALLS	THUNDER	FOG	ICE FOG GROUND	SMOKE HAZE	BLOWING SNOW	BLOWING SAND	NO WEATHER
N	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	2.1	.0	.0	95.8
NNE	.0	1.2	.0	.0	.0	.0	.0	.0	.6	1.2	4.8	.0	.0	89.7
NE	.6	.6	.0	.0	.0	.0	.0	.0	.6	.0	4.3	.0	.0	92.5
ENE	.4	.0	.0	.0	.0	.0	.0	.0	3.3	2.9	6.6	.0	.0	84.0
E	.3	.8	.2	.0	.0	.0	.0	.2	3.4	3.4	7.5	.0	.0	80.6
ESE	.2	.5	.0	.0	.0	.0	.0	.0	.9	.7	5.2	.0	.3	87.7
SE	1.0	1.0	.0	.0	.0	.0	.0	.2	.5	.5	5.4	.0	.0	85.2
SSE	1.0	1.0	.0	.0	.0	.0	.0	.3	3.4	3.1	9.9	.0	.0	78.2
S	1.0	2.4	.2	.0	.0	.0	.0	1.2	5.2	2.1	15.2	.0	.0	71.3
SSW	.4	1.9	.4	.0	.0	.0	.0	.0	5.7	2.3	16.7	.0	.0	72.2
SW	.9	1.5	.0	.0	.0	.0	.0	.0	1.5	1.8	19.0	.0	.0	72.0
WSW	1.0	.8	.0	.0	.0	.0	.0	.0	.8	.6	11.1	.0	.0	84.3
W	.2	.6	.3	.0	.0	.0	.0	.2	.4	.5	9.3	.0	.0	87.0
WNW	.9	1.2	.0	.0	.0	.0	.0	.2	.5	.7	4.9	.0	.0	90.2
NW	.8	.8	.0	.0	.0	.0	.0	.0	.8	.0	3.0	.0	.0	93.2
NNW	1.6	1.6	.0	.0	.0	.0	.0	1.6	.5	.5	3.2	.0	.0	91.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.2	.4	.2	.0	.0	.0	.0	.4	4.2	7.5	12.1	.0	.0	74.0
TOTALS	42	63	7	0	0	0	0	18	127	119	594	0	2	5593
% TOTAL	.6	.9	.1	.0	.0	.0	.0	.3	1.9	1.8	8.8	.0	.0*	83.3

TOTAL NUMBER OF OBSERVATIONS : 6713

NOTES :  
\* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : OCT

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	" GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.9	.6	.0	.0	.0	.0	.0	.0	1.2	.9	2.1	.0	.0	89.0
NNE	1.4	.6	.0	.0	.0	.0	.0	.0	1.7	.8	5.6	.0	.0	84.2
NE	1.2	.0	.3	.0	.0	.0	.0	.0	1.5	3.1	4.6	.0	.0	82.7
ENE	1.2	.3	.0	.0	.0	.0	.0	.0	2.9	2.9	7.6	.0	.0	77.3
E	1.6	.8	.1	.0	.0	.0	.0	.4	4.0	4.4	6.0	.0	.0	75.4
ESE	.7	3.2	.1	.0	.0	.0	.0	1.0	.4	1.0	2.6	.0	.6	84.6
SE	1.6	3.4	.2	.0	.0	.0	.0	1.1	.7	.7	2.9	.0	.0	81.8
SSE	2.9	5.2	.0	.0	.0	.0	.0	1.0	1.6	1.0	6.5	.0	.0	73.5
S	4.8	6.0	1.2	.0	.0	.0	.0	1.0	1.9	1.7	8.6	.0	.0	73.3
SSW	7.1	7.9	.0	.0	.0	.0	.0	2.5	2.1	1.3	11.3	.0	.0	69.0
SW	3.3	2.2	1.5	.0	.0	.0	.0	.4	.7	1.8	6.2	.0	.0	79.5
WSW	2.1	4.1	.0	.0	.0	.0	.0	.9	1.5	.6	4.7	.0	.0	82.5
W	.9	2.4	.1	.0	.0	.0	.0	.3	.6	.9	5.4	.0	.0	85.2
WNW	.5	.8	.3	.0	.0	.0	.0	.0	1.0	.3	3.6	.0	.0	85.8
NW	1.0	1.3	.0	.0	.0	.0	.0	.0	.7	.3	3.4	.0	.0	87.2
NNW	.4	.4	.0	.0	.0	.0	.0	.0	2.3	.4	3.8	.0	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.1	1.5	.2	.0	.0	.0	.0	.2	3.9	4.3	8.2	.0	.0	77.6
TOTALS	123	166	16	0	0	0	0	36	124	122	381	0	4	5816
% TOTAL	1.7	2.3	.2	.0	.0	.0	.0	.5	1.7	1.7	5.3	.0	.1	81.1

TOTAL NUMBER OF OBSERVATIONS : 7175

NOTES : \* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : NOV

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN	FREEZE	SLEET " SHOWERS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	1.1	.4	.2	.0	.0	.0	.0	.0	.2	2.1	2.6	6.2	.0	.0	84.0
NNE	1.4	1.3	.2	.0	.0	.0	.0	.0	.3	3.2	2.1	8.4	.0	.0	79.5
NE	2.0	.5	.2	.0	.0	.0	.0	.0	.2	4.3	2.4	8.5	.0	.0	75.9
ENE	2.0	.9	.0	.0	.0	.0	.0	.0	.2	6.3	6.1	9.8	.0	.0	71.6
E	3.0	2.1	.8	.0	.0	.0	.0	.0	.4	6.6	4.0	5.7	.0	.0	75.6
ESE	4.1	2.2	.2	.0	.0	.0	.0	.0	.6	1.0	.6	2.4	.0	.0	85.9
SE	4.7	5.9	.6	.0	.0	.0	.0	.0	.9	1.2	.9	2.4	.0	.0	81.8
SSE	12.3	10.3	.4	.0	.0	.0	.0	.0	2.0	1.2	1.2	7.5	.0	.0	64.4
S	10.1	10.1	.6	.0	.0	.0	.0	.0	1.5	4.0	.9	7.1	.0	.0	59.5
SSW	18.0	7.9	1.6	.0	.0	.0	.0	.0	3.2	3.2	.0	7.4	.0	.0	54.0
SW	9.5	6.0	2.0	.0	.0	.0	.0	.0	.5	.5	.5	4.0	.0	.0	71.1
WSW	5.6	7.2	2.0	.0	.0	.0	.0	.0	.0	2.4	.0	6.4	.0	.0	70.8
W	4.4	5.2	1.0	.0	.0	.0	.0	.0	1.0	2.7	.2	4.8	.0	.0	76.2
WNW	1.1	2.5	.0	.0	.0	.0	.0	.0	.0	.8	.0	2.5	.0	.0	85.4
NW	1.6	1.3	.0	.0	.0	.0	.0	.0	.0	1.0	.3	2.6	.0	.0	88.5
NNW	1.5	.9	.0	.0	.0	.0	.0	.0	.3	2.9	.9	5.3	.0	.0	83.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.3	.8	.4	.0	.0	.0	.0	.0	.2	5.6	8.3	6.2	.0	.0	75.5
TOTALS	271	214	34	0	0	0	0	0	38	229	155	407	0	0	5352
* TOTAL	3.9	3.1	.5	.0	.0	.0	.0	.0	.5	3.3	2.2	5.8	.0	.0	76.9

TOTAL NUMBER OF OBSERVATIONS : 6959

NOTES :  
# = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL TORNADO HAIL SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.9	.7	.5	.0	.0	.0	.0	1.9	5.7	4.5	.0	.0	81.5
NNE	2.0	.6	.0	.0	.0	.1	.0	5.9	5.0	9.1	.0	.0	72.0
NE	1.9	.5	.3	.0	.0	.0	.0	5.9	5.6	8.7	.0	.0	70.9
ENE	1.4	1.0	.4	.0	.0	.0	.0	5.8	6.2	7.8	.0	.0	72.6
E	2.0	1.3	.5	.0	.0	.0	.0	8.0	6.1	4.1	.0	.0	73.7
ESE	6.1	4.1	.3	.0	.0	.0	.0	3.8	2.0	6.1	.0	.0	67.3
SE	5.3	7.2	.4	.0	.0	.0	.0	2.6	2.3	5.7	.0	.0	67.9
SSE	6.3	11.3	1.3	.0	.0	.0	.0	4.4	2.5	10.1	.0	.0	61.0
S	12.6	13.8	2.4	.0	.0	.0	.0	9.1	1.2	12.2	.0	.0	51.6
SSW	11.1	10.7	1.2	.0	.0	.4	.0	8.2	.8	7.4	.0	.0	58.8
SW	12.3	8.6	6.7	.0	.0	.4	.0	3.7	.4	9.3	.0	.0	57.5
WSW	10.7	8.7	4.5	.0	.0	.0	.0	3.1	1.3	5.5	.0	.0	66.4
W	5.9	6.2	1.7	.0	.0	.0	.0	2.8	1.3	8.5	.0	.0	72.8
WNW	3.2	2.9	.0	.0	.0	.0	.0	1.1	.5	6.1	.0	.0	81.2
NW	1.9	1.2	.2	.0	.0	.0	.0	1.2	1.0	3.1	.0	.0	85.8
NNW	1.6	1.0	.3	.0	.0	.0	.0	4.2	1.0	4.6	.0	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.4	2.3	.6	.0	.0	.0	.0	8.1	7.2	6.8	.0	.0	72.5
TOTALS	286	251	69	0	0	3	0	351	260	491	0	0	5180
% TOTAL	4.0	3.5	1.0	.0	.0	.0*	.0	4.9	3.6	6.8	.0	.0	72.0

TOTAL NUMBER OF OBSERVATIONS : 7190

NOTES :  
\* = PERCENT < .05

14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : ANN

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	.8	.7	.2	.0	.0*	.0	.0	.2	2.2	2.8	5.3	.0	.0*	84.1
NNE	1.2	.7	.1	.0	.0	.0*	.0	.1	3.1	2.9	7.2	.0	.0	79.0
NE	1.5	.6	.2	.0	.0	.0	.0	.1	3.7	3.3	7.3	.0	.0	78.6
ENE	1.2	.7	.1	.0	.0	.0	.0	.2	4.8	5.0	8.4	.0	.0*	75.7
E	1.8	1.0	.3	.0	.0	.0*	.0	.2	4.5	5.1	6.9	.0	.1	77.0
ESE	2.7	1.7	.1	.0	.0	.0	.0	.3	1.2	1.1	5.0	.0	.3	84.0
SE	2.8	2.4	.2	.0	.0	.0*	.0	.5	1.2	1.0	6.6	.0	.0	81.8
SSE	4.4	3.7	.3	.0	.0	.0	.0	.7	2.7	2.3	11.5	.0	.0	72.2
S	4.5	4.6	.9	.0	.0	.0*	.0	.6	5.0	2.8	16.3	.0	.0	64.3
SSW	6.5	5.0	.8	.0	.0	.0*	.1	.9	3.8	2.1	16.7	.0	.0	63.4
SW	4.5	3.7	1.7	.0	.0	.0*	.0	.3	2.5	1.5	14.5	.0	.0	70.2
WSW	3.0	3.1	1.2	.0	.0	.0	.0	.3	1.8	.9	11.0	.0	.0	76.9
W	1.5	1.7	.4	.0	.0	.0*	.0	.3	.9	.6	8.9	.0	.1	82.4
WNW	.9	1.3	.1	.0	.0	.0	.0	.1	.6	.4	5.7	.0	.0*	86.7
NW	1.2	1.0	.1	.0	.0	.0	.0	.0	.9	.9	4.0	.0	.0*	87.6
NNW	.8	.7	.2	.0	.0	.0	.0	.2	1.7	.9	4.7	.0	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.4	.8	.2	.0	.0	.0	.0	.1	5.6	6.7	11.2	.0	.0*	72.7
TOTALS	1864	1546	347	0	1	8	2	230	2161	1925	7233	0	30	64515
% TOTAL	2.3	1.9	.4	.0	.0*	.0*	.0*	.3	2.6	2.3	8.8	.0	.0*	78.3

TOTAL NUMBER OF OBSERVATIONS : 82411

NOTES :  
\* = PERCENT < .05

## 15 - MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	50.8	52.4	54.1	57.0	61.6	66.8	71.5	71.9	69.4	63.3	56.2	51.7	60.6
S.D.	5.995	5.098	4.400	3.982	4.389	4.494	4.298	4.141	4.973	4.649	5.572	6.594	9.034
TOT OBS	868	790	868	840	868	840	867	868	840	897	870	899	10315
MEAN	49.2	50.8	51.9	54.6	58.9	64.3	68.8	69.3	67.0	61.2	54.5	50.3	58.4
S.D.	6.615	5.895	5.055	4.620	4.708	4.699	4.561	4.541	5.458	5.218	6.177	7.158	9.051
TOT OBS	867	790	868	840	868	840	868	868	840	899	870	899	10317
MEAN	48.0	49.5	50.4	53.0	57.7	63.5	67.4	67.2	65.2	59.7	53.1	49.2	57.0
S.D.	7.211	6.538	5.703	5.099	4.811	4.704	4.503	4.743	5.852	5.741	6.763	7.675	9.190
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	899	10318
MEAN	49.7	52.5	56.2	61.3	67.5	72.8	77.3	77.2	74.2	66.2	56.8	51.1	63.6
S.D.	6.662	5.545	4.500	4.628	5.979	5.784	5.538	5.110	5.441	5.060	6.053	7.144	11.389
TOT OBS	868	790	868	840	867	840	868	868	840	899	870	899	10317
MEAN	57.8	59.6	62.7	66.4	71.9	76.7	81.9	82.5	79.7	73.0	64.5	58.8	69.6
S.D.	4.627	4.382	5.161	5.988	7.294	6.811	6.823	6.608	6.679	5.844	5.397	5.185	10.618
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	899	10318
MEAN	59.8	61.2	64.0	67.3	72.4	77.3	82.8	83.1	80.0	73.4	65.7	60.7	70.6
S.D.	4.362	4.571	5.401	5.993	7.026	6.655	6.536	6.303	6.425	5.576	5.350	4.846	10.163
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	899	10318
MEAN	55.3	57.7	60.6	64.2	69.1	74.3	79.3	79.1	75.7	68.3	60.5	55.7	66.7
S.D.	4.180	3.740	4.187	4.923	6.012	5.937	5.603	5.361	5.333	4.393	4.627	4.990	9.876
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	899	10318
MEAN	52.5	54.1	56.2	59.4	63.8	68.7	73.1	73.4	71.2	65.1	57.8	53.2	62.4
S.D.	5.102	4.303	3.778	3.685	4.092	4.437	4.171	4.081	4.403	4.158	5.036	5.874	8.754
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	899	10318
MEAN	52.9	54.7	57.0	60.4	65.4	70.5	75.2	75.4	72.8	66.3	58.6	53.8	63.6
S.D.	6.973	6.469	6.694	7.018	7.781	7.525	7.680	7.609	7.642	6.964	7.079	7.387	10.866
TOT OBS	6943	6320	6944	6720	6943	6720	6943	6944	6720	7190	6960	7192	82539



WET-BULB TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	48.2	49.4	50.4	52.7	56.2	61.0	64.9	65.5	63.7	58.9	52.9	48.9	56.1
S.D.	5.965	5.328	4.480	3.982	3.839	3.686	3.119	3.322	4.361	4.937	5.743	6.333	7.829
TOT OBS	866	790	868	840	868	840	867	868	840	897	870	899	10313
MEAN	46.9	48.1	48.8	51.0	54.3	59.5	63.3	63.7	62.0	57.3	51.5	47.9	54.5
S.D.	6.434	5.880	4.906	4.473	4.209	4.121	3.670	3.959	4.981	5.364	6.239	6.840	8.004
TOT OBS	863	790	868	840	868	840	868	868	840	899	870	898	10312
MEAN	45.9	47.1	47.7	49.9	53.8	59.2	62.4	62.3	60.8	56.3	50.4	47.0	53.6
S.D.	6.960	6.407	5.440	4.910	4.341	4.078	3.830	4.246	5.309	5.775	6.695	7.289	8.253
TOT OBS	866	790	868	840	868	840	868	867	840	899	870	898	10314
MEAN	47.2	49.5	51.7	55.1	58.9	63.5	66.7	66.9	65.4	60.0	53.1	48.5	57.2
S.D.	6.562	5.551	4.516	4.044	3.899	3.616	3.201	3.590	4.303	4.959	5.994	6.838	8.541
TOT OBS	866	790	868	840	867	840	868	867	840	899	870	898	10313
MEAN	52.5	53.6	54.8	57.2	60.7	64.9	68.4	69.0	67.3	62.8	57.2	53.5	60.2
S.D.	4.825	4.420	4.177	4.062	3.947	3.654	3.122	3.430	3.925	4.330	4.672	5.122	7.228
TOT OBS	868	790	868	840	868	840	868	868	840	899	870	898	10317
MEAN	53.4	54.3	55.4	57.5	61.1	65.3	68.7	69.2	67.5	63.2	57.7	54.2	60.6
S.D.	4.457	4.278	3.986	3.791	3.761	3.649	3.124	3.415	3.941	4.227	4.471	4.757	6.988
TOT OBS	868	790	868	840	868	840	868	968	840	898	870	898	10316
MEAN	51.2	52.6	54.0	56.3	60.0	64.3	68.0	68.3	66.2	61.4	55.5	51.7	59.1
S.D.	4.680	4.240	3.812	3.650	3.684	3.323	2.845	2.997	3.721	4.162	4.822	5.205	7.340
TOT OBS	866	790	868	840	868	840	868	868	840	899	870	899	10316
MEAN	49.4	50.6	51.8	54.3	57.9	62.3	66.1	66.5	64.9	60.2	54.0	50.2	57.4
S.D.	5.298	4.900	4.117	3.734	3.500	3.364	2.962	2.894	3.801	4.557	5.342	5.894	7.557
TOT OBS	865	790	868	840	868	840	868	868	840	899	869	899	10314
MEAN	49.4	50.6	51.8	54.3	57.9	62.5	66.1	66.4	64.7	60.0	54.1	50.2	57.3
S.D.	6.275	5.717	5.175	4.879	4.711	4.330	3.928	4.194	4.685	5.341	6.053	6.577	8.094
TOT OBS	6928	6320	6944	6720	6943	6720	6943	6942	6720	7189	6959	7187	82515

## 17 - MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01	MEAN 45.5 7.139 866	46.4 6.736 790	46.8 6.120 868	48.8 5.927 840	52.0 5.944 868	57.0 5.769 840	60.9 5.429 867	61.8 5.266 868	60.0 6.140 840	55.7 6.606 896	50.0 7.204 870	46.3 7.159 899	52.6 8.654 10312
04	MEAN 44.6 7.387 863	45.6 6.892 790	45.7 6.203 868	47.7 5.959 840	50.6 5.796 868	56.0 5.805 840	59.7 5.518 868	60.2 5.716 868	58.6 6.547 840	54.3 6.890 898	48.8 7.520 870	45.5 7.491 898	51.5 8.691 10311
07	MEAN 43.7 7.747 866	44.7 7.277 790	44.9 6.372 868	47.0 6.149 840	50.5 5.726 868	56.1 5.525 840	59.2 5.388 867	59.2 5.618 867	57.8 6.606 840	53.5 7.117 898	47.9 7.831 870	44.8 7.737 897	50.8 8.825 10311
10	MEAN 44.8 7.624 866	46.6 6.749 790	47.7 6.171 867	50.1 6.099 840	52.7 5.771 867	57.5 5.611 840	60.6 5.391 868	61.0 5.931 867	60.1 6.371 840	55.6 6.920 898	49.8 7.492 870	46.0 7.596 898	52.7 8.721 10311
13	MEAN 47.8 7.027 868	48.4 6.602 790	48.2 6.612 868	49.8 6.549 840	52.7 6.078 868	57.7 5.740 840	61.0 5.293 868	61.6 5.746 868	60.2 6.089 840	56.0 6.860 898	51.5 6.836 870	48.8 6.954 898	53.7 8.199 10316
16	MEAN 47.8 7.144 868	48.2 6.974 790	48.2 6.631 868	49.8 6.421 840	53.2 5.701 868	58.1 5.668 839	60.9 5.568 868	61.5 5.864 868	60.4 6.103 840	56.3 7.089 897	51.4 7.160 870	48.5 7.149 898	53.7 8.320 10314
19	MEAN 47.3 6.669 866	47.9 6.557 790	48.2 6.302 868	50.0 6.084 840	53.4 5.817 868	58.2 5.230 840	61.7 5.161 867	62.4 5.180 868	60.6 5.853 840	56.7 6.593 898	51.3 6.945 870	47.9 6.788 899	53.8 8.287 10314
22	MEAN 46.4 6.784 865	47.1 6.736 790	47.8 6.106 868	49.9 5.990 840	53.5 5.675 868	58.1 5.469 840	62.1 5.170 868	62.6 4.816 868	61.0 5.788 840	56.7 6.522 898	50.7 7.079 870	47.2 6.998 899	53.6 8.555 10314
ALL	MEAN 46.0 7.346 6928	46.9 6.923 6320	47.2 6.425 6943	49.2 6.243 6720	52.3 5.917 6943	57.3 5.662 6719	60.8 5.436 6941	61.3 5.627 6942	59.8 6.273 6720	55.6 6.909 7181	50.2 7.361 6960	46.9 7.364 7186	52.8 8.600 82503

SEA-LEVEL PRESSURE (MB)  
(FROM HOURLY OBSERVATIONS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

HOURS  
(LST)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	1021.5	1019.3	1018.5	1016.3	1016.4	1016.9	1016.3	1015.7	1017.1	1017.8	1019.0	1020.4	1017.9
S.D.	7.625	7.258	6.384	5.301	3.743	2.706	2.166	2.101	2.832	4.325	6.166	7.723	5.558
TOT OBS	868	790	868	840	868	840	867	868	840	896	870	899	10314
MEAN	1021.1	1018.7	1017.7	1015.4	1015.6	1016.2	1015.7	1015.1	1016.5	1017.2	1018.5	1019.9	1017.3
S.D.	7.654	7.299	6.458	5.346	3.820	2.800	2.223	2.132	2.887	4.426	6.157	7.687	5.621
TOT OBS	868	790	868	840	868	840	868	868	840	898	869	899	10316
MEAN	1020.7	1018.4	1017.7	1015.5	1015.9	1016.5	1016.0	1015.3	1016.6	1017.3	1018.4	1019.6	1017.3
S.D.	7.679	7.417	6.541	5.396	3.850	2.803	2.214	2.124	2.954	4.474	6.238	7.713	5.603
TOT OBS	868	790	868	840	868	840	868	868	840	898	869	899	10316
MEAN	1021.8	1019.4	1018.7	1016.4	1016.6	1017.2	1016.7	1016.1	1017.7	1018.4	1019.5	1020.6	1018.3
S.D.	7.694	7.493	6.604	5.479	3.888	2.760	2.183	2.111	2.957	4.554	6.350	7.807	5.679
TOT OBS	868	790	868	840	867	840	868	868	840	898	870	899	10316
MEAN	1021.9	1019.7	1018.8	1016.4	1016.6	1017.3	1016.8	1016.1	1017.5	1018.2	1019.3	1020.6	1018.3
S.D.	7.684	7.413	6.546	5.369	3.766	2.669	2.174	2.110	2.861	4.409	6.238	7.895	5.644
TOT OBS	868	790	868	840	868	840	868	868	840	898	870	899	10317
MEAN	1020.4	1018.2	1017.5	1015.4	1015.8	1016.5	1015.8	1015.1	1016.4	1017.0	1018.0	1019.3	1017.1
S.D.	7.537	7.258	6.347	5.209	3.663	2.630	2.191	2.113	2.773	4.253	6.117	7.770	5.469
TOT OBS	868	790	868	840	868	840	868	868	840	898	870	899	10317
MEAN	1020.8	1018.4	1017.4	1015.2	1015.3	1015.8	1015.1	1014.4	1016.1	1017.1	1018.3	1019.7	1017.0
S.D.	7.519	7.197	6.246	5.112	3.606	2.642	2.200	2.123	2.793	4.215	6.182	7.746	5.558
TOT OBS	868	790	868	840	868	840	868	868	840	898	870	899	10317
MEAN	1021.5	1019.2	1018.4	1016.2	1016.2	1016.7	1015.9	1015.4	1017.1	1018.0	1019.0	1020.4	1017.8
S.D.	7.513	7.218	6.201	5.172	3.658	2.630	2.186	2.110	2.835	4.276	6.206	7.721	5.537
TOT OBS	868	790	868	840	868	840	868	868	840	898	870	899	10317
MEAN	1021.2	1018.9	1018.1	1015.8	1016.1	1016.6	1016.0	1015.4	1016.9	1017.6	1018.7	1020.1	1017.6
S.D.	7.627	7.334	6.436	5.318	3.775	2.744	2.253	2.182	2.909	4.395	6.224	7.769	5.604
TOT OBS	6944	6320	6944	6720	6943	6720	6943	6944	6720	7182	6958	7192	82530

## 19 - MEANS AND STANDARD DEVIATIONS

STATION PRESSURE (INCHES OF HG)  
(FROM HOURLY OBSERVATIONS)013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 96 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	30.070	30.003	29.982	29.915	29.922	29.935	29.918	29.900	29.940	29.957	30.001	30.030	29.964
S.D.	.219	.214	.186	.153	.108	.078	.062	.060	.081	.126	.174	.226	.160
TOT OBS	806	762	806	810	637	810	836	837	810	835	810	837	9796
MEAN	30.057	29.986	29.959	29.891	29.899	29.914	29.900	29.882	29.921	29.939	29.986	30.017	29.945
S.D.	.220	.215	.188	.155	.110	.080	.064	.061	.082	.128	.175	.225	.162
TOT OBS	805	762	806	810	837	810	837	837	809	837	810	837	9797
MEAN	30.046	29.978	29.958	29.891	29.906	29.923	29.909	29.888	29.925	29.942	29.983	30.009	29.946
S.D.	.221	.219	.191	.156	.111	.080	.063	.061	.084	.130	.176	.225	.162
TOT OBS	805	762	806	810	837	810	837	837	810	837	809	837	9797
MEAN	30.077	30.007	29.989	29.918	29.929	29.944	29.930	29.912	29.955	29.975	30.016	30.039	29.974
S.D.	.221	.221	.193	.159	.112	.079	.063	.060	.085	.132	.179	.228	.164
TOT OBS	805	762	806	810	836	810	837	837	810	837	810	837	9797
MEAN	30.082	30.016	29.991	29.919	29.928	29.945	29.931	29.911	29.952	29.969	30.011	30.039	29.974
S.D.	.220	.219	.191	.155	.108	.077	.062	.060	.082	.128	.176	.231	.163
TOT OBS	802	761	806	810	837	810	837	836	810	836	810	837	9792
MEAN	30.039	29.973	29.954	29.892	29.905	29.922	29.905	29.882	29.920	29.935	29.973	29.999	29.941
S.D.	.215	.214	.186	.151	.105	.075	.063	.060	.079	.123	.172	.227	.158
TOT OBS	806	761	806	810	837	810	837	837	809	836	810	837	9796
MEAN	30.049	29.976	29.952	29.884	29.892	29.905	29.883	29.864	29.912	29.937	29.982	30.010	29.937
S.D.	.215	.213	.182	.148	.104	.076	.064	.061	.079	.122	.174	.227	.160
TOT OBS	804	762	806	810	837	810	837	837	810	837	810	837	9797
MEAN	30.071	29.999	29.980	29.912	29.917	29.928	29.907	29.892	29.941	29.962	30.003	30.029	29.961
S.D.	.215	.213	.180	.149	.105	.076	.063	.060	.081	.124	.175	.226	.160
TOT OBS	806	762	806	810	836	810	837	837	810	837	810	837	9798
MEAN	30.061	29.992	29.971	29.903	29.912	29.927	29.910	29.891	29.933	29.952	29.994	30.021	29.955
S.D.	.219	.217	.188	.154	.108	.079	.065	.062	.083	.128	.176	.227	.162
TOT OBS	6439	6094	6448	6480	6694	6480	6695	6695	6478	6692	6479	6696	78370

## 20 - FLYING WEATHER - PERCENT OF HOURS

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

## CEILING LESS THAN 5000 FEET &amp; VISIBILITY LESS THAN 5.00 MILES

## PERCENT OF HOURS WITH

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	25	26	18	16	14	14	8	6	9	12	19	24	16	30
04	28	29	22	22	17	17	14	10	14	15	20	25	19	30
07	34	30	25	32	27	29	23	18	21	19	24	29	26	30
10	38	31	28	25	25	26	17	14	18	20	26	36	25	30
13	28	30	23	22	18	14	8	6	10	15	21	28	19	30
16	28	27	21	18	14	10	6	3	6	13	22	29	16	30
19	28	28	20	13	11	9	5	3	5	12	22	29	15	30
22	24	24	17	15	12	12	6	5	7	12	18	23	15	30
ALL	29	28	22	21	17	16	11	8	11	15	22	28	19	30

## CEILING LESS THAN 3000 FEET &amp; VISIBILITY LESS THAN 3.00 MILES

## PERCENT OF HOURS WITH

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	17	16	10	9	10	10	5	4	7	8	11	13	10	30
04	18	18	13	13	12	12	9	6	9	10	13	13	12	30
07	22	19	15	19	18	19	16	11	13	14	15	18	16	30
10	24	19	16	15	16	19	12	12	12	13	15	20	16	30
13	18	19	14	14	11	9	5	4	8	10	13	17	12	30
16	19	16	12	9	9	9	2	2	4	8	12	17	9	30
19	17	17	11	6	7	5	2	2	3	8	13	16	9	30
22	15	14	8	8	6	6	2	3	4	8	9	13	8	30
ALL	19	17	12	11	11	10	7	5	8	10	13	16	12	30

## CEILING LESS THAN 1000 FEET &amp; VISIBILITY LESS THAN 3.00 MILES

## PERCENT OF HOURS WITH

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	6	5	3	2	2	3	1	1	2	3	3	3	3	30
04	8	6	5	3	3	3	3	1	3	3	5	4	4	30
07	10	8	6	7	5	6	8	5	5	5	6	7	6	30
10	12	9	5	4	2	3	3	3	2	3	6	8	5	30
13	6	6	3	2	1	1	1	0*	1	2	3	4	2	30
16	6	4	2	1	1	0*	0*	0*	0*	1	3	3	2	30
19	6	5	1	1	0*	1	0*	1	0*	2	4	3	2	30
22	4	4	1	1	1	1	0*	1	1	1	2	4	2	30
ALL	7	6	3	3	2	2	2	2	2	2	4	5	3	30

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

PERCENT OF HOURS WITH  
CEILING LESS THAN 300 FEET & VISIBILITY LESS THAN 1 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	3	2	1	0*	0*	0*	0	0	0*	1	1	1	1	30
04	5	3	2	1	1	0*	0*	0*	1	1	2	2	1	30
07	6	4	2	2	1	1	2	1	1	2	2	3	2	30
10	6	3	2	1	0*	0*	0*	0*	1	1	2	3	2	30
13	1	1	0*	0*	0	0*	0	0	0	0*	0*	0*	0*	30
16	1	0*	0*	0	0*	0	0	0	0	0*	0*	0*	0*	30
19	1	1	0	0*	0	0*	0	0	0	0*	0*	1	0*	30
22	2	1	0*	0*	0*	0	0	0	0	0	0*	0*	0*	30
ALL	3	2	1	1	0*	0*	0*	0*	0*	1	1	1	1	30

PERCENT OF HOURS WITH  
CEILING LESS THAN 200 FEET & VISIBILITY LESS THAN 1/2 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	2	1	1	0*	0*	0*	0	0	0*	0*	0*	1	0*	30
04	4	2	1	0*	0*	0*	0	0*	0*	0*	2	1	1	30
07	5	3	2	2	1	1	2	1	1	1	1	2	2	30
10	5	2	1	0*	0	0*	0	0*	0*	1	2	2	1	30
13	0*	0*	0	0	0	0	0	0	0	0	0*	0*	0*	30
16	0*	0*	0	0	0	0	0	0	0	0*	0*	0	0*	30
19	1	0*	0	0*	0	0*	0	0	0	0*	0*	0*	0*	30
22	1	1	0*	0*	0*	0	0	0	0	0	0*	0*	0*	30
ALL	2	1	1	0*	0*	0*	0*	0*	0*	0*	1	1	1	30

NOTE :  
\* = VALUE > 0 AND < 0.5 PERCENT

# 5 - DAILY TEMPERATURES

ELEMENT TYPE : MAXIMUM TEMPERATURE

013025 ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>=115	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0*
>=110	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0*
>=105	.0	.0	.0	.0	.0	.1	.2	.4	.1	.0	.0	.0	.1
>=100	.0	.0	.0	.0	.0	.3	2.1	1.8	.6	.0	.0	.0	.4
>= 95	.0	.0	.0	.0	.3	1.8	8.9	11.1	5.2	.0	.0	.0	2.3
>= 90	.0	.0	.0	.1	2.6	8.9	27.9	29.6	18.2	1.4	.0	.0	7.4
>= 85	.0	.0	.0	.8	10.1	23.1	46.2	46.3	35.4	5.4	.0	.0	13.9
>= 80	.0	.0	1.4	7.2	24.6	44.9	73.6	79.0	60.9	24.0	1.6	.0	26.5
>= 75	.1	.7	7.5	18.7	43.3	73.8	95.8	98.0	87.6	53.0	8.8	.2	40.7
>= 70	2.6	8.7	22.6	43.4	72.1	94.6	100.0	100.0	99.0	85.4	33.8	6.8	55.9
>= 65	18.2	27.7	48.9	74.8	95.2	100.0	100.0	100.0	100.0	98.2	67.5	30.2	71.9
>= 60	67.6	76.2	90.4	97.0	99.7	100.0	100.0	100.0	100.0	99.8	93.5	70.2	91.2
>= 55	93.9	98.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	94.3	98.8
>= 50	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	99.8
>= 45	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0
>= 40	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	61.1	62.7	65.5	69.2	74.3	79.4	84.8	85.3	82.4	75.3	67.3	62.0	72.5
S.D.	4.283	4.411	5.420	6.078	7.179	6.903	6.862	6.670	6.952	5.726	5.279	4.824	10.497
TOT. OBS.	899	812	899	870	899	870	899	898	870	930	899	930	10675

NOTES :  
 \* = PERCENT < .05

## 6 - DAILY TEMPERATURES

ELEMENT TYPE : MINIMUM TEMPERATURE

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>= 80	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0*
>= 75	.0	.0	.0	.0	.0	.2	1.7	2.8	2.0	.0	.0	.0	.6
>= 70	.0	.0	.0	.0	.3	3.9	21.6	25.8	17.8	.8	.0	.0	5.9
>= 65	.0	.0	.0	.0	2.6	25.4	61.2	65.4	47.0	10.3	.4	.2	17.7
>= 60	.4	1.1	1.9	3.8	22.5	68.0	92.8	92.3	78.0	41.7	9.2	3.8	34.7
>= 55	9.2	12.3	13.5	27.6	62.8	93.8	99.3	99.4	95.9	75.8	29.4	15.5	53.0
>= 50	30.5	37.3	44.2	67.4	94.2	99.5	100.0	100.0	99.1	92.9	61.1	32.3	71.6
>= 45	54.7	66.6	78.6	93.7	99.7	100.0	100.0	100.0	100.0	99.0	84.2	57.7	86.2
>= 40	78.8	88.4	96.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	95.1	83.8	95.1
>= 35	96.4	99.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	96.9	99.3
>= 30	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0
>= 25	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	45.5	47.3	48.7	51.6	56.1	61.7	65.8	66.2	64.0	58.0	50.9	46.4	55.2
S.D.	6.614	6.083	5.291	4.616	4.430	4.495	4.273	4.556	5.569	5.472	6.359	7.122	9.264
TOT. OBS.	899	812	899	870	899	870	899	898	870	930	399	930	10675

NOTES :  
\* = PERCENT < .05



7 - DAILY TEMPERATURES

ELEMENT TYPE : MEAN TEMPERATURE

013025 ROJA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>= 95	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0*
>= 90	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0*
>= 85	.0	.0	.0	.0	.0	.5	4.1	4.6	2.3	.0	.0	.0	1.0
>= 80	.0	.0	.0	.0	.2	4.0	20.1	21.6	15.6	.2	.0	.0	5.2
>= 75	.0	.0	.0	.1	3.8	19.9	54.9	60.2	41.0	5.1	.0	.0	15.4
>= 70	.0	.1	.1	1.4	19.8	58.6	92.4	92.7	72.9	27.8	.6	.0	30.6
>= 65	.1	.6	4.2	16.6	55.3	91.4	99.6	99.7	96.4	73.2	16.0	2.6	46.4
>= 60	10.0	16.1	27.3	59.9	91.3	99.7	100.0	100.0	99.8	94.3	50.1	17.6	64.0
>= 55	44.8	57.3	75.4	94.1	99.7	100.0	100.0	100.0	100.0	99.2	84.1	49.6	83.7
>= 50	81.0	90.8	98.1	99.9	100.0	100.0	100.0	100.0	100.0	100.0	96.7	82.5	95.7
>= 45	96.7	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.0	99.4
>= 40	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0
>= 35	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	53.6	55.2	57.3	60.6	65.5	70.8	75.5	76.1	73.4	66.9	59.3	54.5	64.1
S.O.	4.656	4.221	4.086	4.057	4.730	4.807	4.652	4.660	5.473	4.581	4.888	5.293	9.316
TOT. OBS.	899	812	899	870	899	870	899	898	870	930	899	930	10675

NOTES :  
\* = PERCENT < .05

# 8 - DAILY AMOUNTS

## PERCENTAGE FREQUENCY OF PRECIPITATION

(FROM DAILY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

	NONE	TRACE	.01	<=.05	<=.10	<=.25	<=.50	<=1.0	<=2.5	<=5.0	<=10.0	<=20.0	>20.0	>=01	PERCENT OF DAYS WITH AMOUNTS	TOTAL NO. OF OBS	TOTAL PRECIPITATION (INCHES)		
																	MEAN	HI	LOW
JAN	60.3	7.8	2.2	6.3	4.3	7.0	5.8	4.2	2.0	.0	.0	.0	.0	>=01	31.9	899	2.92	9.14	.007
FEB	56.7	9.9	2.3	5.5	3.7	9.0	7.9	3.8	1.2	.0	.0	.0	.0	33.5	812	812	2.55	6.48	.20
MAR	65.1	8.7	1.6	6.5	2.4	6.0	5.3	3.7	.8	.0	.0	.0	.0	26.3	899	899	2.12	5.60	.05
APR	64.6	10.1	2.3	6.4	3.6	6.7	3.4	2.6	.2	.0	.0	.0	.0	25.3	870	870	1.48	4.16	.03
MAY	76.2	7.6	.9	3.0	3.0	5.1	2.1	1.4	.7	.0	.0	.0	.0	16.2	899	899	1.23	3.89	.01
JUN	83.2	8.2	1.0	2.8	1.4	1.6	1.4	.2	.2	.0	.0	.0	.0	8.6	870	870	.41	1.37	.007
JUL	95.3	3.6	.7	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	1.1	899	899	.06	1.57	.00
AUG	92.8	5.0	.1	1.2	.1	.2	.3	.1	.1	.0	.0	.0	.0	2.2	898	898	.12	1.25	.00
SEP	82.9	8.2	.8	2.1	1.8	1.7	1.3	.9	.3	.0	.0	.0	.0	9.0	870	870	.63	3.35	.00
OCT	71.3	7.5	1.7	4.4	3.3	3.1	2.8	3.8	1.9	.1	.0	.0	.0	21.2	930	930	2.45	9.55	.007
NOV	61.7	7.9	3.6	4.7	3.6	5.6	4.4	4.2	3.9	.4	.0	.0	.0	30.4	899	899	3.85	14.21	.03
DEC	58.4	8.4	2.2	5.3	4.6	7.3	6.2	5.1	2.5	.1	.0	.0	.0	33.2	930	930	3.54	13.42	.09
ANN	72.4	7.7	1.6	4.0	2.7	4.4	3.4	2.5	1.2	.1	.0	.0	.0	19.9	10675	10675	21.38	35.73	12.54

### NOTES :

.007, .0 OR 0.1 = ZERO PRECIPITATION .SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED

\* = PERCENT < .05

ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.

\*\*\*\*\* = ANNUAL MINIMUM TOTAL PRECIPITATION IS NOT AVAILABLE. MONTHLY MINIMUM TOTALS MAY BE MISLEADING

9 - DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW FALL

(FROM DAILY OBSERVATIONS)

D13025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 F

	NONE	TRACE	.1-.4	.5-1.4	<=2.4	<=3.4	<=4.4	<= 6.4	<=10.4	<=15.4	<=25.4	<=50.4	>50.4	>=1	PERCENT OF DAYS WITH AMOUNTS	TOTAL NO. OF OBS	MEAN	HI	LOW	TOTAL PRECIPITATION (INCHES)
JAN	99.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	.0T	.0T	.0	.0
FEB	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	812	.0	.0	.0	.0
MAR	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	.0	.0	.0	.0
APR	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	870	.0	.0	.0	.0
MAY	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	.0	.0	.0	.0
JUN	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	870	.0	.0	.0	.0
JUL	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	.0	.0	.0	.0
AUG	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	898	.0	.0	.0	.0
SEP	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	870	.0	.0	.0	.0
OCT	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	930	.0	.0	.0	.0
NOV	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	.0	.0	.0	.0
DEC	99.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	930	.0T	.0T	.0	.0
ANN	100.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10675	.0T	.0T	.0	.0

NOTES :

.00T, .0 OR 0.1 = ZERO PRECIPITATION ,SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED

\* = PERCENT < .05

ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.

\*\*\*\*\* = ANNUAL MINIMUM TOTAL PRECIPITATION IS NOT AVAILABLE. MONTHLY MINIMUM TOTALS MAY BE MISLEADING

10 - DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH

(FROM DAILY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT

TOTAL PRECIPITATION (INCHES)																	
	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	60-120	> 120	>= 1	PERCENT TOTAL NO. OF DAYS WITH AMOUNTS OBS		
															MEAN	HI	LOW
JAN	99.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
FEB	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAR	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
APR	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAY	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
JUN	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
JUL	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AUG	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SEP	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OCT	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NOV	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DEC	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ANN	100.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10675	0.7

NOTES :

.001, .0 OR 0.1 = ZERO PRECIPITATION ,SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED

\* = PERCENT < .05

ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.

\*\*\*\*\* = ANNUAL MINIMUM TOTAL PRECIPITATION IS NOT AVAILABLE. MONTHLY MINIMUM TOTALS MAY BE MISLEADING

013025 ROTA, SPAIN

 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH : JAN

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.48	12	.00	0	0	0
2	1.58	40	.00	0	0	0
3	.74	19	.00	0	0	0
4	1.12	28	.00	0	0	0
5	1.23	31	.00	0	0	0
6	.50	13	.00	0	0	0
7	.66	17	.00	0	0	0
8	.60	15	.00	0	0	0
9	1.36	35	.00	0	0	0
10	.85	22	.00	0	0	0
11	1.42	36	.00	0	0	0
12	.86	22	.00	0	0	0
13	1.14	29	.00	0	0	0
14	1.03	26	.00	0	0	0
15	1.60	41	.00	0	0	0
16	1.50	38	T	1960	T	1960
17	.97	25	.00	0	0	0
18	.79	20	.00	0	0	0
19	1.07	27	.00	0	0	0
20	.37	9	.00	0	0	0
21	1.38	35	.00	0	0	0
22	.46	12	.00	0	0	0
23	.78	20	.00	0	0	0
24	.65	17	.00	0	0	0
25	.46	12	.00	0	0	0
26	.63	16	.00	0	0	0
27	1.09	28	.00	0	0	0
28	.86	22	.00	0	0	0
29	.90	23	.00	0	0	0
30	1.82	46	.00	0	0	0
31	.74	19	.00	0	0	0
MONTH	1.82	46	T	T	T	T

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROJA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : FEB

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.47	12	.00	0	0.	0
2	1.89	48	.00	0	0.	0
3	.64	16	.00	0	0.	0
4	.41	10	.00	0	0.	0
5	.63	16	.00	0	0.	0
6	1.80	46	.00	0	0.	0
7	.41	10	.00	0	0.	0
8	1.05	27	.00	0	0.	0
9	1.04	26	.00	0	0.	0
10	.57	14	.00	0	0.	0
11	.58	15	.00	0	0.	0
12	.95	24	.00	0	0.	0
13	1.50	38	.00	0	0.	0
14	.90	23	.00	0	0.	0
15	.71	18	.00	0	0.	0
16	.79	20	.00	0	0.	0
17	1.22	31	.00	0	0.	0
18	.55	14	.00	0	0.	0
19	.46	12	.00	0	0.	0
20	.68	17	.00	0	0.	0
21	1.08	27	.00	0	0.	0
22	.53	13	.00	0	0.	0
23	1.19	30	.00	0	0.	0
24	.77	20	.00	0	0.	0
25	.52	13	.00	0	0.	0
26	.90	23	.00	0	0.	0
27	.61	15	.00	0	0.	0
28	.61	15	.00	0	0.	0
29						
30						
31						
MONTH	1.89	48	.00	0	0.	0

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : MAR

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.96	24	.00	0	0.	0
2	.76	19	.00	0	0.	0
3	.56	14	.00	0	0.	0
4	.64	16	.00	0	0.	0
5	.13	3	.00	0	0.	0
6	.33	8	.00	0	0.	0
7	.49	12	.00	0	0.	0
8	.83	21	.00	0	0.	0
9	.74	19	.00	0	0.	0
10	1.34	34	.00	0	0.	0
11	1.06	27	.00	0	0.	0
12	.80	20	.00	0	0.	0
13	.65	17	.00	0	0.	0
14	.56	14	.00	0	0.	0
15	.37	9	.00	0	0.	0
16	.29	7	.00	0	0.	0
17	.48	12	.00	0	0.	0
18	.55	14	.00	0	0.	0
19	1.02	26	.00	0	0.	0
20	.95	24	.00	0	0.	0
21	1.97	50	.00	0	0.	0
22	1.03	26	.00	0	0.	0
23	.55	14	.00	0	0.	0
24	1.07	27	.00	0	0.	0
25	.88	22	.00	0	0.	0
26	2.08	53	.00	0	0.	0
27	.16	4	.00	0	0.	0
28	.80	20	.00	0	0.	0
29	.49	12	.00	0	0.	0
30	.85	22	.00	0	0.	0
31	.33	8	.00	0	0.	0
MONTH	2.08	53	.00	0	0.	0

NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN

 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 PERIOD OF RECORD : 1958-1987

MONTH : APR

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.28	7	.00	0	0.	0
2	.60	15	.00	0	0.	0
3	.89	23	.00	0	0.	0
4	.34	9	.00	0	0.	0
5	.73	20	.00	0	0.	0
6	.54	14	.00	0	0.	0
7	.24	6	.00	0	0.	0
8	.21	5	.00	0	0.	0
9	1.25	32	.00	0	0.	0
10	.44	11	.00	0	0.	0
11	.16	4	.00	0	0.	0
12	.91	23	.00	0	0.	0
13	.79	20	.00	0	0.	0
14	.29	7	.00	0	0.	0
15	.34	9	.00	0	0.	0
16	.26	7	.00	0	0.	0
17	.27	7	.00	0	0.	0
18	.22	6	.00	0	0.	0
19	.92	23	.00	0	0.	0
20	.54	14	.00	0	0.	0
21	.49	12	.00	0	0.	0
22	.38	10	.00	0	0.	0
23	.43	11	.00	0	0.	0
24	.64	16	.00	0	0.	0
25	.56	14	.00	0	0.	0
26	.27	7	.00	0	0.	0
27	.57	14	.00	0	0.	0
28	.98	25	.00	0	0.	0
29	.46	12	.00	0	0.	0
30	.45	11	.00	0	0.	0
31						
MONTH	1.25	32	.00	0	0.	0

 NOTES :  
 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 \* = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : MAY

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.29	7	.00	0	0.	0
2	.86	22	.00	0	0.	0
3	.80	20	.00	0	0.	0
4	.38	10	.00	0	0.	0
5	.49	12	.00	0	0.	0
6	1.03	26	.00	0	0.	0
7	.39	10	.00	0	0.	0
8	.30	8	.00	0	0.	0
9	.47	12	.00	0	0.	0
10	.80	20	.00	0	0.	0
11	.79	20	.00	0	0.	0
12	.22	6	.00	0	0.	0
13	.22	6	.00	0	0.	0
14	.42	11	.00	0	0.	0
15	.68	17	.00	0	0.	0
16	.48	12	.00	0	0.	0
17	.23	6	.00	0	0.	0
18	1.10	28	.00	0	0.	0
19	.33	8	.00	0	0.	0
20	1.25	32	.00	0	0.	0
21	.54	14	.00	0	0.	0
22	.09	2	.00	0	0.	0
23	.34	9	.00	0	0.	0
24	.04	1	.00	0	0.	0
25	.28	7	.00	0	0.	0
26	.92	23	.00	0	0.	0
27	1.15	29	.00	0	0.	0
28	.09	2	.00	0	0.	0
29	T	T	.00	0	0.	0
30	2.01	51	.00	0	0.	0
31	1.56	40	.00	0	0.	0
MONTH	2.01	51	.00	0	0.	0

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 21 - DAILY EXTREME AMOUNTS

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1956-1987

MONTH : JUN

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	.47	12 1977	.00	0 1987	0.	0 1987
2	.05	1 1967	.00	0 1987	0.	0 1987
3	1.28	33 1965	.00	0 1987	0.	0 1987
4	.50	13 1971	.00	0 1987	0.	0 1987
5	.27	7 1970	.00	0 1987	0.	0 1987
6	.17	4 1970	.00	0 1987	0.	0 1987
7	.52	13 1970	.00	0 1987	0.	0 1987
8	.35	9 1978	.00	0 1987	0.	0 1987
9	.15	4 1969	.00	0 1987	0.	0 1987
10	1.01	26 1969	.00	0 1987	0.	0 1987
11	.02	1 1961	.00	0 1987	0.	0 1987
12	.65	17 1962	.00	0 1987	0.	0 1987
13	.17	4 1962	.00	0 1987	0.	0 1987
14	.40	10 1974	.00	0 1987	0.	0 1987
15	.22	6 1974	.00	0 1987	0.	0 1987
16	T	1 1984+	.00	0 1987	0.	0 1987
17	.33	8 1970	.00	0 1987	0.	0 1987
18	.31	8 1985	.00	0 1987	0.	0 1987
19	.27	7 1974	.00	0 1987	0.	0 1987
20	.21	5 1975	.00	0 1987	0.	0 1987
21	.00	0 1987+	.00	0 1987	0.	0 1987
22	.02	1 1974	.00	0 1987	0.	0 1987
23	.07	2 1961	.00	0 1987	0.	0 1987
24	.02	1 1962	.00	0 1987	0.	0 1987
25	.26	7 1974	.00	0 1987	0.	0 1987
26	.10	3 1973	.00	0 1987	0.	0 1987
27	.07	2 1980	.00	0 1987	0.	0 1987
28	.42	11 1964	.00	0 1987	0.	0 1987
29	.01	0 1978+	.00	0 1987	0.	0 1987
30	.02	1 1987	.00	0 1987	0.	0 1987
31						
MONTH	1.28	33 1965	.00	0 1987	0.	0 1987

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 21 - DAILY EXTREME AMOUNTS

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : JUL

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	1.57	40 1977	.00	0 1987	0.	0 1987
2	.01	0 1981+	.00	0 1987	0.	0 1987
3	T	T 1982+	.00	0 1987	0.	0 1987
4	.04	1 1982	.00	0 1987	0.	0 1987
5	.02	1 1969	.00	0 1987	0.	0 1987
6	T	T 1977+	.00	0 1987	0.	0 1987
7	.04	1 1972	.00	0 1987	0.	0 1987
8	T	T 1968+	.00	0 1987	0.	0 1987
9	T	T 1966+	.00	0 1987	0.	0 1987
10	.01	0 1968	.00	0 1987	0.	0 1987
11	T	T 1976+	.00	0 1987	0.	0 1987
12	T	T 1959	.00	0 1987	0.	0 1987
13	.01	0 1974	.00	0 1987	0.	0 1987
14	.00	0 1987+	.00	0 1987	0.	0 1987
15	T	T 1971+	.00	0 1987	0.	0 1987
16	T	T 1976+	.00	0 1987	0.	0 1987
17	.00	0 1987+	.00	0 1987	0.	0 1987
18	T	T 1959	.00	0 1987	0.	0 1987
19	.00	0 1987+	.00	0 1987	0.	0 1987
20	.00	0 1987+	.00	0 1987	0.	0 1987
21	T	T 1959	.00	0 1987	0.	0 1987
22	.01	0 1968	.00	0 1987	0.	0 1987
23	.00	0 1987+	.00	0 1987	0.	0 1987
24	.00	0 1987+	.00	0 1987	0.	0 1987
25	.01	0 1976	.00	0 1987	0.	0 1987
26	.00	0 1987+	.00	0 1987	0.	0 1987
27	T	T 1981+	.00	0 1987	0.	0 1987
28	.00	0 1987+	.00	0 1987	0.	0 1987
29	T	T 1982+	.00	0 1987	0.	0 1987
30	T	T 1979+	.00	0 1987	0.	0 1987
31	T	T 1975+	.00	0 1987	0.	0 1987
MONTH	1.57	40 1977	.00	0 1987	0.	0 1987

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 21 - DAILY EXTREME AMOUNTS

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : AUG

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	.04	1 1982	.00	0 1987	0.	0 1987
2	T	1 1975+	.00	0 1987	0.	0 1987
3	.00	0 1987+	.00	0 1987	0.	0 1987
4	.00	0 1987+	.00	0 1987	0.	0 1987
5	T	1 1968+	.00	0 1987	0.	0 1987
6	T	1 1983+	.00	0 1987	0.	0 1987
7	T	1 1983+	.00	0 1987	0.	0 1987
8	1.02	26 1971	.00	0 1987	0.	0 1987
9	.01	0 1967	.00	0 1987	0.	0 1987
10	T	1 1987+	.00	0 1987	0.	0 1987
11	.00	0 1987+	.00	0 1987	0.	0 1987
12	T	1 1987+	.00	0 1987	0.	0 1987
13	.02	1 1982	.00	0 1987	0.	0 1987
14	T	1 1978+	.00	0 1987	0.	0 1987
15	T	1 1962+	.00	0 1987	0.	0 1987
16	.00	0 1987+	.00	0 1987	0.	0 1987
17	.02	1 1983	.00	0 1987	0.	0 1987
18	.00	0 1987+	.00	0 1987	0.	0 1987
19	.00	0 1987+	.00	0 1987	0.	0 1987
20	T	1 1982+	.00	0 1987	0.	0 1987
21	.02	1 1976+	.00	0 1987	0.	0 1987
22	.02	1 1976	.00	0 1987	0.	0 1987
23	.32	8 1976	.00	0 1987	0.	0 1987
24	.22	6 1976	.00	0 1987	0.	0 1987
25	T	1 1959	.00	0 1987	0.	0 1987
26	T	1 1987+	.00	0 1987	0.	0 1987
27	.33	8 1968	.00	0 1987	0.	0 1987
28	.82	21 1987	.00	0 1987	0.	0 1987
29	.43	11 1987	.00	0 1987	0.	0 1987
30	T	1 1964+	.00	0 1987	0.	0 1987
31	T	1 1984+	.00	0 1987	0.	0 1987
MONTH	1.02	26 1971	.00	0 1987	0.	0 1987

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 21 - DAILY EXTREME AMOUNTS

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : SEP

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	.06	2 1968	.00	0 1987	0.	0 1987
2	.01	0 1967	.00	0 1987	0.	0 1987
3	.14	4 1975	.00	0 1987	0.	0 1987
4	T	1 1978*	.00	0 1987	0.	0 1987
5	.02	1 1972	.00	0 1987	0.	0 1987
6	.58	15 1972	.00	0 1987	0.	0 1987
7	.09	2 1984	.00	0 1987	0.	0 1987
8	T	1 1985*	.00	0 1987	0.	0 1987
9	.06	2 1965	.00	0 1987	0.	0 1987
10	.08	2 1964	.00	0 1987	0.	0 1987
11	.69	18 1986	.00	0 1987	0.	0 1987
12	1.15	29 1969	.00	0 1987	0.	0 1987
13	.25	6 1979	.00	0 1987	0.	0 1987
14	.29	7 1979	.00	0 1987	0.	0 1987
15	.18	5 1966	.00	0 1987	0.	0 1987
16	.42	11 1986	.00	0 1987	0.	0 1987
17	T	1 1975*	.00	0 1987	0.	0 1987
18	T	1 1977*	.00	0 1987	0.	0 1987
19	.44	11 1961	.00	0 1987	0.	0 1987
20	.07	2 1964	.00	0 1987	0.	0 1987
21	.07	2 1980*	.00	0 1987	0.	0 1987
22	.38	10 1981	.00	0 1987	0.	0 1987
23	.11	3 1959	.00	0 1987	0.	0 1987
24	.15	4 1965	.00	0 1987	0.	0 1987
25	.99	25 1965	.00	0 1987	0.	0 1987
26	.95	24 1965	.00	0 1987	0.	0 1987
27	1.29	33 1976	.00	0 1987	0.	0 1987
28	1.18	30 1976	.00	0 1987	0.	0 1987
29	.50	13 1961	.00	0 1987	0.	0 1987
30	.25	6 1960	.00	0 1987	0.	0 1987
31						
MONTH	1.29	33 1976	.00	0 1987	0.	0 1987

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : OCT

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.88	22	.00	0	0.	0
2	1.15	29	.00	0	0.	0
3	1.17	30	.00	0	0.	0
4	1.06	27	.00	0	0.	0
5	.46	12	.00	0	0.	0
6	.94	24	.00	0	0.	0
7	.56	14	.00	0	0.	0
8	.59	15	.00	0	0.	0
9	1.37	35	.00	0	0.	0
10	.79	20	.00	0	0.	0
11	3.32	84	.00	0	0.	0
12	2.42	61	.00	0	0.	0
13	2.35	60	.00	0	0.	0
14	.69	18	.00	0	0.	0
15	.86	22	.00	0	0.	0
16	1.08	27	.00	0	0.	0
17	1.53	39	.00	0	0.	0
18	2.02	51	.00	0	0.	0
19	1.65	42	.00	0	0.	0
20	.34	9	.00	0	0.	0
21	.75	19	.00	0	0.	0
22	1.33	34	.00	0	0.	0
23	.79	20	.00	0	0.	0
24	.98	25	.00	0	0.	0
25	.40	10	.00	0	0.	0
26	.22	6	.00	0	0.	0
27	2.19	56	.00	0	0.	0
28	.62	16	.00	0	0.	0
29	1.63	41	.00	0	0.	0
30	1.14	29	.00	0	0.	0
31	1.13	29	.00	0	0.	0
MONTH	3.32	84	.00	0	0.	0

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OF &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : NOV

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.02	26	.00	0	0.	0
2	1.21	31	.00	0	0.	0
3	1.95	50	.00	0	0.	0
4	2.13	54	.00	0	0.	0
5	1.25	32	.00	0	0.	0
6	1.47	37	.00	0	0.	0
7	1.43	36	.00	0	0.	0
8	1.46	37	.00	0	0.	0
9	1.52	39	.00	0	0.	0
10	.63	16	.00	0	0.	0
11	3.04	77	.00	0	0.	0
12	1.93	49	.00	0	0.	0
13	2.73	69	.00	0	0.	0
14	1.40	36	.00	0	0.	0
15	1.48	38	.00	0	0.	0
16	2.55	65	.00	0	0.	0
17	1.36	35	.00	0	0.	0
18	1.68	43	.00	0	0.	0
19	1.68	43	.00	0	0.	0
20	1.84	47	.00	0	0.	0
21	.98	25	.00	0	0.	0
22	1.04	26	.00	0	0.	0
23	.22	6	.00	0	0.	0
24	1.09	28	.00	0	0.	0
25	1.39	35	.00	0	0.	0
26	.67	17	.00	0	0.	0
27	.99	25	.00	0	0.	0
28	1.25	32	.00	0	0.	0
29	1.64	42	.00	0	0.	0
30	2.62	67	.00	0	0.	0
31						
MONTH	3.04	77	.00	0	0.	0

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PERIOD OF RECORD : 1958-1987

MONTH : DEC

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.25	32	0.00	0	0.	0
2	.87	22	.00	0	0.	0
3	1.85	47	.00	0	0.	0
4	1.18	30	T	1987	0.	0
5	.63	16	.00	0	0.	0
6	2.53	64	.00	0	0.	0
7	1.74	44	.00	0	0.	0
8	2.01	51	.00	0	0.	0
9	.75	19	.00	0	0.	0
10	.75	19	.00	0	0.	0
11	.55	14	.00	0	0.	0
12	.57	14	.00	0	0.	0
13	.45	11	.00	0	0.	0
14	1.75	44	.00	0	0.	0
15	1.33	34	.00	0	0.	0
16	1.33	34	.00	0	0.	0
17	1.30	33	.00	0	0.	0
18	.60	15	.00	0	0.	0
19	2.37	60	.00	0	0.	0
20	.68	17	.00	0	0.	0
21	1.24	31	.00	0	0.	0
22	1.15	29	.00	0	0.	0
23	1.15	29	.00	0	0.	0
24	.55	14	.00	0	0.	0
25	.97	25	T	1962	0.	0
26	1.14	29	T	1962	0.	0
27	2.27	58	.00	0	0.	0
28	.90	23	.00	0	0.	0
29	1.13	29	.00	0	0.	0
30	.68	17	.00	0	0.	0
31	.90	23	.00	0	0.	0
MONTH	2.53	64	T	1987	0.	0

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



PRECIPITATION (INCHES)  
(FROM DAILY OBS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	.76	1.70	2.37	MISS
1959	.69	.41	.70	.35	.54	.02	T	.12	.11	1.06	.86	.28	1.06
1960	1.01	1.03	.80	.98	.86	.05	.00	T	.25	2.19	.81	.46	2.19
1961	.44	.20	1.97	.51	2.01	.13	T	T	.56	1.14	2.55	.97	2.55
1962	.97	.52	1.02	.42	.73	.65	.00	T	.50	3.32	2.73	2.27	3.32
1963	1.60	.79	.96	1.05	.92	.49	.00	.00	.26	.67	.77	2.53	2.53
1964	1.11	.54	.50	.60	1.56	.42	T	T	.14	.07	1.01	1.15	1.56
1965	.41	.80	1.34	.20	.01	1.28	.00	.00	.99	.98	.86	.36	1.34
1966	1.03	.71	.05	.59	.18	.41	T	.00	1.00	1.17	1.25	.23	1.25
1967	.74	1.50	.49	.34	.79	.20	.01	.01	.07	1.48	PART	.33	PART
1968	.06	1.22	.85	.67	.30	.17	.01	.33	.08	1.13	1.43	.71	1.43
1969	1.36	1.89	2.08	.80	.29	1.01	.02	T	1.15	2.02	1.84	.68	2.08
1970	1.58	.20	.80	.47	.42	.52	.00	T	T	.59	.84	.86	1.58
1971	1.82	.17	.59	.87	1.10	.50	T	1.02	T	T	.49	.55	1.82
1972	1.06	.63	.65	.55	.20	.17	.04	T	.58	1.65	1.21	2.01	2.01
1973	.51	.17	1.06	.16	1.25	.10	T	.02	.00	.59	1.25	1.15	1.25
1974	.63	.30	.58	1.25	.10	.40	.01	T	T	.29	1.95	.41	1.95
1975	1.52	1.80	.58	.79	.28	.21	T	T	.18	.06	.30	1.33	1.80
1976	.63	.64	1.07	.92	1.03	.02	.01	.32	1.29	1.63	.24	1.13	1.63
1977	.68	1.08	.20	.02	.06	.47	1.57	T	.12	.77	1.64	1.74	1.74
1978	.20	.73	.76	.52	.61	.35	.00	T	.05	2.42	2.62	1.09	PART
1979	1.12	.95	.55	.24	.01	.05	T	.00	.29	1.37	.05	.21	1.37
1980	1.50	.46	.66	.29	.80	.07	.00	.03	.07	.87	3.04	.09	3.04
1981	T	.19	.67	.47	.47	T	.01	.00	.56	.14	.03	1.06	1.06
1982	1.42	.52	.49	.54	.03	T	.04	.04	.29	.17	1.41	.70	1.42
1983	T	.46	.05	.54	.15	.01	.00	.02	.02	.23	1.93	1.36	1.93
1984	.24	.61	.88	.38	.80	.07	.00	T	.09	.74	1.52	.26	1.52
1985	1.38	1.03	.05	.64	.56	.31	T	.00	T	T	1.39	.65	1.39
1986	.24	.90	.53	.42	.09	.06	T	.00	.69	.25	1.65	.42	1.65
1987	.90	1.19	.32	.89	.08	.02	T	.82	.44	1.78	.73	1.18	1.78
MEAN	.86	.75	.73	.57	.56	.28	.06	.10	.34	.98	1.31	.95	1.79
S.D.	.531	.462	.474	.287	.500	.309	.291	.249	.376	.813	.790	.676	.556
TOT OBS	29	29	29	29	29	29	29	28	29	30	29	30	27

NOTE :  
T = TRACE AMOUNTS (LESS THAN .01, .1, OR 1.0 INCHES)

PRECIPITATION (INCHES)  
(FROM DAILY OBS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL PRECIP # DAYS
1967											1.68 29		
1978								T 30					PRECIP # DAYS

SNOWFALL (INCHES)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1960	T	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	T
1961	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1962	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	T
1963	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1964	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1965	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1966	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1967	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1968	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1969	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1970	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1971	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1972	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1973	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1974	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1975	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1976	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1977	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1978	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1979	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1980	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1981	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1982	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1983	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1984	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1985	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1986	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1987	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	T
MEAN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S.D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOT OBS	3	3	3	3	3	3	3	3	3	3	3	3	3

NOTE : T = TRACE AMOUNTS (LESS THAN .01, .1, OR 1.0 INCHES)

SNOW DEPTH (INCHES)  
(FROM DAILY OBS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1960	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T

MEAN \*\*\*\*\*99999999.0  
S.D. \*\*\*\*\*  
TOT OBS 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE : T = TRACE AMOUNTS (LESS THAN .01, .1, OR 1.0 INCHES)

DAILY PEAK GUST (KNOTS)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1959	ESE 40WSW	28ESE 40N	S 33N	S 33E	30ESE 39N	E 34N	PART	SE 28ESE 31N	NW 38N	W 53N	W 53N	W 53N	W 53N
1960	NW 35WSW	40ESE 43ESE	35N	E 28N	E 34N	PART	SE 28ESE 31N	NW 38N	W 53N	W 53N	W 53N	W 53N	W 53N
1961	WSW 33ESE	31ESE 37N	SW 28N	SW 44ESE	37ESE 38N	E 35ESE	29N	E 30N	NW 37N	S 34N	S 34N	S 34N	S 34N
1962	SW 38N	S 31N	W 36ESE	35N	SW 30ENE	30N	PART	SE 24N	E 32N	E 29N	W 39N	SW 43N	SW 44N
1963	E 49N	SW 37N	W 39WSW	41N	NE 28N	SW 32N	E 33ESE	24ESE 28WSW	35WSW	36N	W 41N	E 49N	E 49N
1964	E 32N	W 37N	SW 38WSW	33N	E 29ESE	32ESE 24N	SE 34N	NE 29WSW	32N	W 32N	SW 38N	SW 38N	SW 38N
1965	MISS	SE 31N	SE 46NNW	26N	E 26N	SE 31ESE	29N	SE 28N	SW 39N	SE 33WSW	47N	PART	PART
1966	MISS	PART	PART	PART	PART	31ESE 34N	E 31N	E 23N	PART	S 32WSW	40N	NE 36N	PART
1967	SW 32N	SW 39ESE	37NNW	34WSW	31ESE	30SSE	22NNW	22WSW	33SSE	39N	PART	NE 32N	PART
1968	ESE 29WSW	39N	PART	35ESE 30N	MISS	MISS	SE 35N	PART	S 32N	W 49WSW	38N	PART	PART
1969	WSW 45N	SW 41N	PART	NW 22WSW	28N	SE 26N	SE 33SSE	30N	W 32N	S 34N	W 36N	W 41N	PART
1970	SW 42ESE	26N	W 35N	NW 28SSE	33N	SW 31ESE	27SSE	23ESE 36N	NE 34ENE	34WSW	40N	SW 42N	SW 42N
1971	NNW 40ESE	28WSW	37WSW	35N	W 26WSW	29ESE 30N	W 24N	SE 29N	E 32ESE	34N	W 42N	NW 44N	NW 44N
1972	NW 44N	S 36ESE	31N	SE 34WSW	30N	W 24ESE	31N	SE 31SSE	28N	SE 37N	E 32N	SW 36N	W 44N
1973	W 44NNW	35ESE	35ESE	32SSE	29ESE 28N	W 23SSE	26N	NE 27N	NW 32WSW	36N	W 44N	W 44N	W 44N
1974	W 47N	NW 34N	PART	32ESE 34N	SE 31N	E 31ESE	26N	SE 29WSW	27SSE	32ESE	29N	PART	PART
1975	S 43ESE	48N	SW 51NNW	27ESE 33N	E 33WSW	29N	W 28ESE	30N	SE 36NNE	36N	NW 43N	SW 51N	SW 51N
1976	NNW 31ESE	42NNW	43N	SW 34N	SE 26ESE	34N	PART	SE 34ESE	30NNW	55N	W 34N	SW 33N	PART
1977	W 38N	S 44ESE	35ESE	25NNW	28N	S 33N	NW 55N	N 26ESE	33N	SW 37N	S 48N	W 42N	NW 55N
1978	N 34N	SW 38N	W 31NNW	36ESE 29N	SE 32SSE	22N	PART	30N	SE 36N	SE 29N	W 34N	PART	PART
1979	WSW 43N	PART	NNW 36N	PART	SE 30N	SE 33ESE	45ESE 25N	PART	33WSW	39N	W 35ESE	25N	PART
1980	SE 26ESE	41WSW	36N	SE 28N	S 36N	SE 33N	SE 28ESE	34ESE 34N	SW 35N	S 34N	SE 39N	ESE 41N	ESE 41N
1981	SE 36N	SE 40N	SW 35ESE	37N	SW 22N	SE 24ESE	26N	PART	33ESE 25N	SE 29N	SE 24WSW	46N	PART
1982	SSE 36WSW	28WSW	30ESE 28ESE	29N	PART	WSW 23ESE	30ESE 27N	E 28N	SW 41WSW	24N	PART	PART	PART
1983	E 34N	SE 33ESE	32ESE 39N	PART	PART	MISS	MISS	PART	30N	PART	W 40N	PART	PART
1984	UNK 27N	PART	PART	MISS	PART	MISS	PART	27NNW	21N	N 27N	PART	NE 26N	PART
1985	UNK 32N	N 30UNK	25UNK	24UNK	29N	PART	N 28NNE	26N	PART	PART	UNK 29N	NE 51N	PART
1986	UNK 40UNK	38UNK	28UNK	30UNK	35NNE	31NNE	39UNK	27N	PART	MISS	MISS	MISS	PART
1987	MISS	PART	UNK 30UNK	43UNK	27N	PART	PART	PART	E 33UNK	39N	NE 48N	PART	PART
MEAN	37.3	35.8	36.1	32.0	30.0	31.1	30.8	28.9	30.4	33.7	36.6	38.3	45.7
S.D.	6.215	5.664	5.830	5.276	4.014	3.279	7.866	5.131	3.998	5.532	6.664	7.294	5.442
TOT OBS	26	25	24	26	27	23	22	25	23	27	26	27	11

DAILY PEAK GUST (KNOTS)  
(FROM DAILY OBS)013025 ROTIA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
PAGE : 1

## YEAR/MONTHS WITH &lt; FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL PEAK GUST # DAYS
1958													
1960							VESE 27 28						PEAK GUST # DAYS
1962							E 26 28						PEAK GUST # DAYS
1965											SSW 35 29		PEAK GUST # DAYS
1966		W 49 23	E 30 26	S 32 26				SE 34 28					PEAK GUST # DAYS
1967										ASSE 31 29			PEAK GUST # DAYS
1968			WSW 36 28					WNW 25 26					PEAK GUST # DAYS
1969			NE 33 30										PEAK GUST # DAYS
1974			SE 39 30										PEAK GUST # DAYS
1976							SE 28 22						PEAK GUST # DAYS
1978								SF 26 30					PEAK GUST # DAYS
1979	WSW 42 18			W 29 29				VESE 32 28					PEAK GUST # DAYS
1981								VFSE 26 23					PEAK GUST # DAYS
1982							S 24 28						PEAK GUST # DAYS
1983					SW 22 30	S 24 20		SE 30 24			W 32 28		PEAK GUST # DAYS
1984	VESE 23 22	UNKN 40 30		UNKN 23 28						UNKN 34 29			PEAK GUST # DAYS
1985					WNW 32 26			UNKN 26 28					PEAK GUST # DAYS
1986								WNW 24 27					PEAK GUST # DAYS

1947

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JAN

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE DEG F	DEG C	AVERAGE DEG F	DEG C	DATE	AVERAGE DEG F	DEG C	DATE
1	52.8	11.6	60.9	16.0	1982.+	44.8	7.1	33.0
2	53.3	11.8	61.3	16.3	1978.	45.3	7.4	28.0
3	53.4	11.9	61.0	16.1	1982.	45.8	7.7	37.0
4	52.8	11.6	61.3	16.3	1982.	44.3	6.9	33.0
5	52.5	11.4	60.4	15.8	1983.+	44.6	7.0	32.0
6	52.7	11.5	61.2	16.2	1982.	44.3	6.8	35.0
7	52.1	11.1	61.1	16.2	1979.	43.0	6.1	33.0
8	52.9	11.6	61.4	16.3	1982.	44.4	6.9	31.0
9	53.9	12.1	61.2	16.2	1982.	46.5	8.0	32.0
10	53.5	11.9	60.6	15.9	1982.	46.3	8.0	36.0
11	52.8	11.5	60.3	15.7	1974.	45.2	7.4	34.0
12	52.0	11.1	59.7	15.4	1976.	44.3	6.9	30.0
13	51.8	11.0	59.4	15.2	1976.	44.1	6.7	32.0
14	51.9	11.1	59.5	15.3	1979.+	44.3	6.9	32.0
15	52.4	11.4	60.1	15.6	1983.+	44.8	7.1	31.0
16	52.3	11.3	60.6	15.9	1983.+	43.9	6.6	30.0
17	53.4	11.9	60.9	16.0	1983.+	46.0	7.8	31.0
18	53.7	12.0	61.2	16.2	1988.	46.2	7.9	32.0
19	54.6	12.5	62.2	16.8	1970.	46.9	8.3	36.0
20	55.1	12.8	62.6	17.0	1981.+	47.6	8.6	34.0
21	54.7	12.6	61.7	16.5	1981.	47.8	8.8	39.0
22	53.9	12.2	61.4	16.3	1981.	46.4	8.0	36.0
23	54.1	12.3	62.0	16.7	1983.	46.1	7.9	35.0
24	54.2	12.3	61.8	16.6	1959.	46.6	8.1	32.0
25	54.7	12.6	62.6	17.0	1980.	46.7	8.2	35.0
26	54.0	12.2	62.1	16.7	1983.	46.0	7.8	30.0
27	53.6	12.0	61.8	16.6	1983.	45.4	7.4	31.0
28	53.0	11.7	60.9	16.1	1983.	45.1	7.3	31.0
29	53.1	11.7	60.3	15.7	1975.	45.8	7.7	34.0
30	53.3	11.8	60.7	16.0	1985.	45.8	7.7	33.0
31	53.8	12.1	61.6	16.4	1985.	46.1	7.8	38.0
MONTH	53.3	11.8	61.1	16.2	1980.	45.5	7.5	28.0
								-2.2 1971.

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : FEB

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE				
DAY	AVERAGE		DATE	AVERAGE		EXTREME	DATE	AVERAGE		EXTREME	DATE	
	DEG F	DEG C		DEG F	DEG C			DEG F	DEG C			
1	54.3	12.4		62.1	16.7	72.0	1985.	46.5	8.0	39.0	3.9	1981.+
2	54.5	12.5		61.9	16.6	71.0	1964.	47.2	8.4	37.0	2.8	1981.+
3	54.0	12.2		62.3	16.8	70.0	1985.+	45.7	7.6	35.0	1.7	1963.
4	54.5	12.5		62.8	17.1	70.0	1980.+	46.3	7.9	34.0	1.1	1973.
5	53.8	12.1		62.3	16.8	72.0	1985.	45.3	7.4	35.0	1.7	1973.
6	54.9	12.7		62.4	16.9	73.0	1981.	47.3	8.5	38.0	3.3	1973.+
7	54.9	12.7		62.8	17.1	73.0	1981.	47.0	8.3	38.0	3.3	1973.
8	54.2	12.3		62.6	17.0	72.0	1982.	45.8	7.7	36.0	2.2	1960.
9	54.4	12.5		62.1	16.7	71.0	1961.	46.8	8.2	33.0	.6	1960.
10	54.2	12.3		61.1	16.2	70.0	1961.	47.3	8.5	34.0	1.1	1983.
11	54.3	12.4		61.9	16.6	71.0	1961.	46.6	8.1	32.0	.0	1983.
12	53.4	11.9		60.6	15.9	70.0	1982.	46.2	7.9	37.0	2.8	1978.+
13	53.5	11.9		60.6	15.9	68.0	1971.	46.3	8.0	35.0	1.7	1978.
14	54.3	12.4		61.0	16.1	70.0	1985.	47.7	8.7	37.0	2.8	1978.+
15	54.3	12.4		61.3	16.3	72.0	1985.	47.4	8.5	32.0	.0	1970.
16	54.8	12.7		62.0	16.6	68.0	1980.	47.6	8.7	36.0	2.2	1969.
17	54.4	12.5		62.2	16.8	72.0	1980.	46.7	8.1	35.0	1.7	1973.+
18	55.5	13.1		63.1	17.3	75.0	1978.	47.9	8.8	37.0	2.8	1965.
19	55.6	13.1		62.6	17.0	72.0	1985.	48.6	9.2	35.0	1.7	1965.
20	54.8	12.6		62.8	17.1	73.0	1964.	46.8	8.2	33.0	.6	1965.
21	55.8	13.2		63.8	17.6	74.0	1970.	47.9	8.8	36.0	2.2	1981.
22	55.9	13.3		63.9	17.7	74.0	1970.	48.0	8.9	39.0	3.9	1981.
23	56.0	13.3		64.0	17.8	71.0	1976.+	48.0	8.9	40.0	4.4	1966.+
24	55.7	13.2		64.2	17.9	71.0	1971.	47.3	8.5	36.0	2.2	1981.
25	55.6	13.1		63.1	17.3	72.0	1983.	48.1	8.9	34.0	1.1	1981.
26	56.1	13.4		64.0	17.8	77.0	1971.	48.3	9.1	38.0	3.3	1974.
27	57.3	14.1		65.0	18.3	77.0	1960.	49.7	9.8	37.0	2.8	1979.
28	57.7	14.3		65.9	18.9	79.0	1987.	49.4	9.7	38.0	3.3	1970.
MONTH	55.0	12.8		62.7	17.0	79.0	1987.	47.3	8.5	32.0	.0	1983.+

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAR

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE				
DAY	AVERAGE		DATE	AVERAGE		EXTREME	DATE	AVERAGE		EXTREME	DATE	
	DEG F	DEG C		DEG F	DEG C			DEG F	DEG C			
1	57.0	13.9		65.2	18.4	81.0	27.2	1987.	48.9	9.4	38.0	3.3 1974.
2	57.0	13.9		65.9	18.8	81.0	27.2	1987.+	48.1	8.9	37.0	2.8 1972.
3	56.8	13.8		65.4	18.6	81.0	27.2	1987.	48.2	9.0	38.0	3.3 1979.+
4	56.8	13.8		65.1	18.4	77.0	25.0	1987.+	48.5	9.2	40.0	4.4 1974.
5	56.3	13.5		65.3	18.5	79.0	26.1	1987.	47.3	8.5	37.0	2.8 1974.
6	56.0	13.4		64.3	17.9	73.0	22.8	1987.	47.8	8.8	36.0	2.2 1971.
7	57.0	13.9		65.2	18.4	79.0	26.1	1981.	48.9	9.4	39.0	3.9 1966.+
8	55.6	13.1		64.2	17.9	74.0	23.3	1977.	47.1	8.4	37.0	2.8 1965.
9	56.5	13.6		65.3	18.5	82.0	27.8	1981.	47.7	8.7	39.0	3.9 1966.
10	56.2	13.4		65.2	18.5	81.0	27.2	1983.	47.1	8.4	34.0	1.1 1971.
11	57.1	13.9		66.0	18.9	82.0	27.8	1981.	48.1	9.0	39.0	3.9 1984.+
12	57.0	13.9		65.2	18.5	81.0	27.2	1982.	48.7	9.3	37.0	2.8 1984.
13	56.9	13.9		65.1	18.4	79.0	26.1	1967.	48.7	9.3	39.0	3.9 1985.
14	56.8	13.8		64.9	18.3	79.0	26.1	1983.	48.7	9.3	39.0	3.9 1985.
15	56.0	13.3		63.9	17.7	74.0	23.3	1977.	48.0	8.9	39.0	3.9 1985.
16	56.5	13.6		65.4	18.5	77.0	25.0	1983.	47.6	8.7	36.0	2.2 1970.
17	56.8	13.8		65.8	18.8	79.0	26.1	1983.	47.7	8.7	37.0	2.8 1970.
18	57.6	14.2		66.4	19.1	79.0	26.1	1983.	48.8	9.3	36.0	2.2 1970.
19	57.2	14.0		65.3	18.5	76.0	24.4	1966.+	49.1	9.5	40.0	4.4 1973.
20	58.0	14.5		65.6	18.7	79.0	26.1	1965.	50.4	10.2	41.0	5.0 1972.
21	57.7	14.3		65.6	18.7	81.0	27.2	1982.	49.9	9.9	41.0	5.0 1987.+
22	58.2	14.6		66.4	19.1	82.0	27.8	1982.	50.1	10.0	40.0	4.4 1975.
23	57.6	14.2		66.0	18.9	79.0	26.1	1982.	49.1	9.5	40.0	4.4 1971.+
24	57.4	14.1		65.7	18.7	77.0	25.0	1981.	49.0	9.4	39.0	3.9 1963.
25	57.2	14.0		65.1	18.4	77.0	25.0	1978.	49.4	9.7	40.0	4.4 1970.+
26	57.5	14.2		66.6	19.2	77.0	25.0	1978.	48.4	9.1	40.0	4.4 1973.
27	58.3	14.6		67.6	19.8	81.0	27.2	1978.	48.9	9.4	42.0	5.6 1964.
28	59.1	15.0		66.3	19.1	74.0	23.3	1972.+	51.8	11.0	44.0	6.7 1966.
29	57.4	14.1		65.1	18.4	73.0	22.8	1961.	49.8	9.9	42.0	5.6 1969.
30	57.1	13.9		65.9	18.8	81.0	27.2	1980.	48.3	9.1	36.0	2.2 1977.
31	57.4	14.1		66.7	19.3	81.0	27.2	1980.	48.0	8.9	39.0	3.9 1987.+
MONTH	57.1	13.9		65.5	18.6	82.0	27.8	1982.+	48.7	9.3	34.0	1.1 1971.

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : APR

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE								
DAY	AVERAGE			AVERAGE			EXTREME			AVERAGE			EXTREME			
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C		DEG F	DEG C		DEG F	DEG C		
1	58.4	14.7		67.4	19.7		84.0	28.9		1980.		49.4	9.7	41.0	5.0	1975.+
2	58.4	14.7		66.7	19.3		92.0	33.3		1980.		50.2	10.1	39.0	3.9	1975.
3	58.3	14.6		66.3	19.0		81.0	27.2		1980.		50.4	10.2	41.0	5.0	1975.
4	58.4	14.7		66.2	19.0		77.0	25.0		1973.		50.6	10.3	43.0	6.1	1974.
5	59.0	15.0		66.4	19.1		79.0	26.1		1967.		51.5	10.8	45.0	7.2	1974.+
6	58.8	14.9		67.8	19.9		81.0	27.2		1984.		49.9	10.0	41.0	5.0	1975.
7	59.6	15.3		68.7	20.4		82.0	27.8		1973.		50.5	10.3	42.0	5.6	1968.
8	59.9	15.5		67.4	19.7		84.0	28.9		1983.		52.4	11.4	44.0	6.7	1977.+
9	59.4	15.2		67.7	19.8		84.0	28.9		1982.		51.1	10.6	43.0	6.1	1980.
10	58.8	14.9		67.5	19.7		84.0	28.9		1982.		50.1	10.0	38.0	3.3	1973.
11	59.4	15.2		68.3	20.2		81.0	27.2		1983.		50.4	10.2	38.0	3.3	1973.
12	59.6	15.3		68.8	20.5		82.0	27.8		1985.		50.3	10.2	40.0	4.4	1973.
13	60.3	15.7		69.8	21.0		83.0	28.3		1977.		50.8	10.5	39.0	3.9	1986.
14	61.6	16.4		71.1	21.7		84.0	28.9		1985.		52.1	11.1	45.0	7.2	1975.+
15	61.3	16.3		70.0	21.1		84.0	28.9		1965.		52.6	11.4	45.0	7.2	1979.
16	61.4	16.3		69.6	20.9		84.0	28.9		1985.		53.2	11.8	45.0	7.2	1980.+
17	60.5	15.8		69.6	20.9		86.0	30.0		1965.		51.4	10.8	44.0	6.7	1980.
18	60.5	15.8		70.0	21.1		81.0	27.2		1985.+		50.9	10.5	41.0	5.0	1972.
19	60.8	16.0		70.3	21.3		81.0	27.2		1985.+		51.4	10.8	42.0	5.6	1973.+
20	60.9	16.1		70.8	21.5		81.0	27.2		1987.		51.1	10.6	44.0	6.7	1972.
21	60.9	16.1		70.7	21.5		84.0	28.9		1977.		51.2	10.7	44.0	6.7	1972.+
22	61.5	16.4		70.3	21.3		83.0	28.3		1966.		52.7	11.5	45.0	7.2	1970.
23	61.1	16.1		69.9	21.1		84.0	28.9		1966.		52.2	11.2	44.0	6.7	1972.
24	61.6	16.4		70.4	21.3		82.0	27.8		1964.		52.7	11.5	44.0	6.7	1971.
25	61.5	16.4		71.0	21.7		88.0	31.1		1964.		51.9	11.1	45.0	7.2	1979.
26	62.3	16.8		71.5	21.9		85.0	29.4		1977.+		53.1	11.7	46.0	7.8	1965.
27	61.5	16.4		69.9	21.1		81.0	27.2		1977.+		53.1	11.7	44.0	6.7	1972.
28	61.3	16.3		69.3	20.7		81.0	27.2		1964.		53.4	11.9	44.0	6.7	1970.
29	61.5	16.4		70.3	21.3		87.0	30.6		1964.		52.6	11.4	43.0	6.1	1970.
30	62.7	17.0		71.9	22.1		88.0	31.1		1964.		53.4	11.9	43.0	6.1	1970.
MONTH	60.4	15.8		69.2	20.7		92.0	33.3		1980.		51.6	10.9	38.0	3.3	1973.+

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : MAY

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		EXTREME		AVERAGE		EXTREME		AVERAGE		EXTREME	
DAY	DEG F	DEG C	DEG F	DEG C	DEG F	DEG C	DEG F	DEG F	DEG C	DEG F	DEG C
1	62.9	17.2	72.2	22.3	84.0	28.9	1966.+	53.6	12.0	47.0	8.3
2	62.3	16.8	71.0	21.7	82.0	27.8	1966.	53.6	12.0	48.0	8.9
3	62.6	17.0	70.9	21.6	81.0	27.2	1982.+	54.3	12.4	48.0	8.9
4	62.8	17.1	71.4	21.9	85.0	29.4	1964.	54.1	12.3	46.0	7.8
5	63.7	17.6	72.1	22.3	92.0	33.3	1965.	55.4	13.0	47.0	8.3
6	63.1	17.3	72.3	22.4	92.0	33.3	1965.	53.8	12.1	47.0	8.3
7	63.0	17.2	72.9	22.7	90.0	32.2	1965.	53.1	11.7	44.0	6.7
8	63.7	17.6	73.7	23.1	92.0	33.3	1965.	53.8	12.1	43.0	6.1
9	64.7	18.2	74.5	23.6	93.0	33.9	1965.	54.8	12.7	47.0	8.3
10	65.7	18.7	76.1	24.5	96.0	35.6	1965.	55.3	13.0	47.0	8.3
11	66.0	18.9	75.8	24.3	95.0	35.0	1965.	56.2	13.5	48.0	8.9
12	66.4	19.1	76.4	24.7	94.0	34.4	1965.	56.3	13.5	50.0	10.0
13	66.0	18.9	75.1	23.9	95.0	35.0	1965.	56.9	13.8	48.0	8.9
14	66.1	18.9	74.9	23.9	89.0	31.7	1974.	57.2	14.0	47.0	8.3
15	65.9	18.9	75.2	24.0	91.0	32.8	1964.	56.7	13.7	46.0	7.8
16	65.2	18.4	73.9	23.3	92.0	33.3	1964.	56.5	13.6	44.0	6.7
17	65.4	18.6	74.3	23.5	88.0	31.1	1964.	56.6	13.7	49.0	9.4
18	65.3	18.5	74.2	23.4	88.0	31.1	1986.+	56.3	13.5	45.0	7.2
19	65.1	18.4	73.7	23.2	86.0	30.0	1986.	56.4	13.5	50.0	10.0
20	65.5	18.6	74.4	23.6	88.0	31.1	1966.	56.6	13.7	47.0	8.3
21	65.7	18.7	75.4	24.1	89.0	31.7	1974.	55.9	13.3	48.0	8.9
22	66.5	19.2	75.5	24.2	91.0	32.8	1974.	57.6	14.2	50.0	10.0
23	66.0	18.9	75.2	24.0	90.0	32.2	1982.	56.7	13.7	49.0	9.4
24	66.9	19.4	76.4	24.7	91.0	32.8	1973.	57.3	14.1	50.0	10.0
25	66.9	19.4	76.4	24.7	91.0	32.8	1986.+	57.4	14.1	50.0	10.0
26	67.0	19.5	76.8	24.9	93.0	33.9	1967.	57.3	14.0	50.0	10.0
27	65.9	18.8	74.1	23.4	89.0	31.7	1972.	57.7	14.3	50.0	10.0
28	66.2	19.0	74.9	23.8	89.0	31.7	1972.+	57.5	14.2	51.0	10.6
29	66.4	19.1	74.8	23.8	87.0	30.6	1972.	58.0	14.5	51.0	10.6
30	66.3	19.0	75.2	24.0	89.0	31.7	1970.	57.3	14.1	51.0	10.6
31	67.3	19.6	75.0	23.9	87.0	30.6	1976.	59.6	15.3	54.0	12.2
MONTH	65.2	18.5	74.3	23.5	96.0	35.6	1965.	56.1	13.4	43.0	6.1

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : JUN

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
DAY	DEG F	DEG C	DEG F	DEG C	DEG F	DEG C	DEG F	DEG F	DEG C	DEG F	DEG C
1	68.2	20.1	77.3	25.2	90.0	32.2	1976.	59.0	15.0	50.0	10.0
2	67.8	19.9	76.6	24.8	89.0	31.7	1980.	58.9	14.9	52.0	11.1
3	67.5	19.7	75.3	24.1	95.0	35.0	1983.	59.7	15.4	47.0	8.3
4	68.6	20.3	76.6	24.8	94.0	34.4	1980.	60.6	15.9	50.0	10.0
5	68.5	20.3	77.2	25.1	88.0	31.1	1983.+	60.1	15.6	54.0	12.2
6	68.5	20.3	76.6	24.8	94.0	34.4	1966.	60.3	15.7	50.0	10.0
7	68.3	20.1	76.8	24.9	92.0	33.3	1964.	59.7	15.4	52.0	11.1
8	69.1	20.6	78.3	25.7	95.0	35.0	1964.	59.9	15.5	52.0	11.1
9	69.2	20.7	78.2	25.7	96.0	35.6	1964.	60.2	15.7	52.0	11.1
10	69.5	20.8	78.6	25.9	93.0	33.9	1983.+	60.4	15.8	52.0	11.1
11	70.0	21.1	79.3	26.3	95.0	35.0	1964.	60.7	16.0	53.0	11.7
12	70.5	21.4	79.9	26.6	99.0	37.2	1981.	61.1	16.2	52.0	11.1
13	70.5	21.4	79.1	26.2	106.0	41.1	1981.	61.9	16.6	54.0	12.2
14	70.4	21.3	78.5	25.8	91.0	32.8	1983.+	62.2	16.8	50.0	10.0
15	69.6	20.9	78.4	25.8	100.0	37.8	1983.	60.9	16.0	49.0	9.4
16	70.3	21.3	79.6	26.4	99.0	37.2	1983.	61.0	16.1	49.0	9.4
17	70.4	21.3	79.3	26.3	91.0	32.8	1983.	61.5	16.4	48.0	8.9
18	71.1	21.7	79.9	26.6	93.0	33.9	1963.	62.3	16.8	52.0	11.1
19	70.9	21.6	80.1	26.7	91.0	32.8	1965.	61.8	16.5	53.0	11.7
20	71.6	22.0	80.4	26.9	93.0	33.9	1971.+	62.8	17.1	53.0	11.7
21	71.6	22.0	80.8	27.1	92.0	33.3	1967.	62.4	16.9	55.0	12.8
22	71.1	21.7	79.2	26.2	92.0	33.3	1967.	63.0	17.2	55.0	12.8
23	71.9	22.2	80.4	26.9	94.0	34.4	1967.	63.3	17.4	53.0	11.7
24	71.2	21.8	80.0	26.7	89.0	31.7	1970.	62.4	16.9	56.0	13.3
25	72.3	22.4	81.1	27.3	91.0	32.8	1963.	63.5	17.5	58.0	14.4
26	72.2	22.3	81.0	27.2	94.0	34.4	1976.	63.3	17.4	56.0	13.3
27	73.4	23.0	82.9	28.3	101.0	38.3	1965.	63.9	17.7	57.0	13.9
28	74.1	23.4	83.8	28.8	94.0	34.4	1966.	64.3	18.0	54.0	12.2
29	73.3	22.9	82.4	28.0	95.0	35.0	1968.	64.2	17.9	55.0	12.8
30	74.0	23.4	83.6	28.7	99.0	37.2	1982.	64.5	18.0	53.0	11.7
MONTH	70.5	21.4	79.4	26.3	106.0	41.1	1981.	61.7	16.5	47.0	8.3
											1975.

NOTES :  
 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).  
 THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : JUL

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		I		AVERAGE		I		AVERAGE		I	
DAY	DEG F	DEG C		DEG F	DEG C			DEG F	DEG C		
1	73.6	23.1	82.7	28.2	99.0	37.2	1982.	64.4	18.0	56.0	13.3
2	73.9	23.3	82.7	28.1	96.0	35.6	1974.	65.1	18.4	54.0	12.2
3	73.7	23.2	83.1	28.4	93.0	33.9	1987.+	64.3	18.0	56.0	13.3
4	73.2	22.9	82.5	28.0	93.0	33.9	1986.	64.0	17.8	57.0	13.9
5	73.9	23.3	83.3	28.5	95.0	35.0	1986.	64.6	18.1	55.0	12.8
6	74.7	23.7	84.5	29.2	96.0	35.6	1959.	64.8	18.2	52.0	11.1
7	74.8	23.8	85.1	29.5	99.0	37.2	1985.	64.6	18.1	53.0	11.7
8	74.1	23.4	83.1	28.4	95.0	35.0	1987.	65.0	18.3	55.0	12.8
9	74.8	23.8	85.1	29.5	98.0	36.7	1974.	64.5	18.1	51.0	10.6
10	74.8	23.8	84.9	29.4	100.0	37.8	1982.	64.7	18.2	56.0	13.3
11	75.3	24.1	85.1	29.5	95.0	35.0	1974.	65.5	18.6	56.0	13.3
12	75.9	24.4	86.2	30.1	98.0	36.7	1974.	65.6	18.6	59.0	15.0
13	75.4	24.1	85.4	29.7	99.0	37.2	1981.	65.3	18.5	59.0	15.0
14	75.6	24.2	85.4	29.7	102.0	38.9	1976.+	65.7	18.7	52.0	11.1
15	76.0	24.4	85.7	29.8	108.0	42.2	1975.	66.3	19.0	55.0	12.8
16	75.7	24.3	85.3	29.6	105.0	40.6	1975.	66.0	18.9	53.0	11.7
17	75.3	24.0	84.9	29.4	102.0	38.9	1964.	65.7	18.7	56.0	13.3
18	75.6	24.2	85.5	29.7	103.0	39.4	1967.	65.8	18.8	59.0	15.0
19	76.4	24.7	86.4	30.2	100.0	37.8	1964.	66.4	19.1	58.0	14.4
20	76.8	24.9	86.8	30.4	104.0	40.0	1967.	66.8	19.3	57.0	13.9
21	76.3	24.6	86.5	30.3	97.0	36.1	1984.	66.0	18.9	56.0	13.3
22	76.2	24.6	85.1	29.5	97.0	36.1	1985.	67.3	19.6	59.0	15.0
23	75.4	24.1	85.0	29.4	102.0	38.9	1978.	65.9	18.8	55.0	12.8
24	76.0	24.5	85.4	29.7	99.0	37.2	1985.	66.7	19.3	60.0	15.6
25	76.2	24.5	85.2	29.5	103.0	39.4	1973.	67.1	19.5	55.0	12.8
26	75.6	24.2	84.3	29.1	92.0	33.3	1973.+	66.8	19.3	57.0	13.9
27	75.9	24.4	85.6	29.8	96.0	35.6	1963.	66.2	19.0	57.0	13.9
28	76.6	24.8	85.3	29.6	99.0	37.2	1979.	67.9	20.0	58.0	14.4
29	76.2	24.6	85.3	29.6	101.0	38.3	1975.	67.2	19.5	56.0	13.3
30	75.4	24.1	84.0	28.9	103.0	39.4	1975.	66.9	19.4	57.0	13.9
31	74.4	23.5	83.2	28.4	97.0	36.1	1971.	65.6	18.6	59.0	15.0
MONTH	75.3	24.0	84.8	29.3	108.0	42.2	1975.	65.8	18.8	51.0	10.6

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : AUG

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
DAY	DEG F	DEG C	DEG F	DEG C	DEG F	DEG C	DEG F	DEG F	DEG C	DEG F	DEG C
DATE											
1	75.6	24.2	84.9	29.4	98.0	36.7	1964.	66.4	19.1	58.0	14.4
2	75.7	24.3	84.9	29.4	106.0	41.1	1964.	66.5	19.1	60.0	15.6
3	75.9	24.4	84.9	29.4	104.0	40.0	1964.	66.9	19.4	56.0	13.3
4	77.0	25.0	87.4	30.8	103.0	39.4	1964.	66.5	19.2	56.0	13.3
5	76.1	24.5	86.4	30.2	99.0	37.2	1980.	65.7	18.7	57.0	13.9
6	75.7	24.3	85.2	29.5	98.0	36.7	1976.	66.2	19.0	55.0	12.8
7	75.4	24.1	84.8	29.3	96.0	35.6	1975.	66.1	18.9	58.0	14.4
8	75.3	24.1	85.1	29.5	106.0	41.1	1976.	65.6	18.7	59.0	15.0
9	75.4	24.1	85.3	29.6	100.0	37.8	1963.	65.5	18.6	52.0	11.1
10	75.8	24.3	85.9	29.9	96.0	35.6	1966.	65.7	18.7	55.0	12.8
11	75.2	24.0	83.8	28.8	99.0	37.2	1979.+	66.6	19.2	57.0	13.9
12	75.2	24.0	84.4	29.1	96.0	35.6	1979.	65.9	18.9	55.0	12.8
13	76.1	24.5	85.1	29.5	96.0	35.6	1976.+	67.1	19.5	60.0	15.6
14	75.5	24.1	84.8	29.3	95.0	35.0	1985.+	66.2	19.0	54.0	12.2
15	75.3	24.1	84.4	29.1	93.0	33.9	1985.+	66.2	19.0	56.0	13.3
16	75.6	24.2	85.0	29.5	97.0	36.1	1980.	66.1	19.0	56.0	13.3
17	75.3	24.1	85.3	29.6	100.0	37.8	1982.	65.3	18.5	58.0	14.4
18	75.9	24.4	86.1	30.1	100.0	37.8	1982.	65.7	18.7	57.0	13.9
19	77.2	25.1	87.6	30.9	117.0	47.2	1982.	66.8	19.3	56.0	13.3
20	77.5	25.3	88.4	31.3	105.0	40.6	1973.	66.6	19.2	55.0	12.8
21	76.8	24.9	86.2	30.1	99.0	37.2	1986.	67.4	19.7	55.0	12.8
22	75.5	24.2	85.0	29.4	95.0	35.0	1986.+	66.0	18.9	57.0	13.9
23	76.2	24.5	86.3	30.2	99.0	37.2	1978.	66.0	18.9	54.0	12.2
24	75.7	24.3	85.2	29.6	97.0	36.1	1964.	66.2	19.0	51.0	10.6
25	76.4	24.7	85.9	29.9	98.0	36.7	1961.	66.9	19.4	55.0	12.8
26	75.3	24.1	84.2	29.0	99.0	37.2	1961.	66.4	19.1	55.0	12.8
27	76.0	24.4	85.0	29.4	96.0	35.6	1962.	67.0	19.4	54.0	12.2
28	74.8	23.8	84.1	28.9	96.0	35.6	1960.	65.4	18.6	58.0	14.4
29	75.8	24.3	85.3	29.6	104.0	40.0	1980.	66.2	19.0	55.0	12.8
30	75.8	24.3	85.3	29.6	101.0	38.3	1980.	66.2	19.0	56.0	13.3
31	74.8	23.8	83.4	28.6	103.0	39.4	1980.	66.3	19.0	56.0	13.3
MONTH	75.8	24.3	85.3	29.6	117.0	47.2	1982.	66.2	19.0	51.0	10.6
											1965.

NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : SEP

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		I		AVERAGE		I		AVERAGE		I	
DAY	DEG F	DEG C	DATE	DEG F	DEG C	DATE	DEG F	DEG C	DATE	DEG F	DEG C
1	75.2	24.0		84.2	29.0		100.0	37.8	1970.	66.2	19.0
2	74.5	23.6		84.1	28.9		98.0	36.7	1970.	65.0	18.3
3	74.5	23.6		84.3	29.1		95.0	35.0	1982.+	64.6	18.1
4	74.1	23.4		83.0	28.4		99.0	37.2	1983.	65.2	18.4
5	73.7	23.2		82.9	28.3		100.0	37.8	1966.	64.4	18.0
6	74.1	23.4		84.6	29.2		102.0	38.9	1987.	63.6	17.5
7	74.6	23.7		84.8	29.3		97.0	36.1	1987.+	64.4	18.0
8	75.0	23.9		85.1	29.5		97.0	36.1	1987.	64.9	18.3
9	74.6	23.7		83.6	28.6		96.0	35.6	1966.	65.7	18.7
10	74.3	23.5		83.3	28.5		98.0	36.7	1966.	65.3	18.5
11	73.3	22.9		82.0	27.8		95.0	35.0	1987.	64.5	18.1
12	74.0	23.3		83.6	28.7		99.0	37.2	1987.	64.4	18.0
13	73.7	23.2		83.6	28.7		99.0	37.2	1987.	63.7	17.6
14	74.0	23.3		83.1	28.4		97.0	36.1	1987.+	64.8	18.2
15	73.5	23.1		82.1	27.8		99.0	37.2	1987.	65.0	18.3
16	72.7	22.6		80.9	27.2		95.0	35.0	1987.	64.4	18.0
17	72.2	22.3		81.7	27.6		106.0	41.1	1964.	62.7	17.1
18	72.4	22.5		81.3	27.4		97.0	36.1	1987.	63.5	17.5
19	71.8	22.1		80.8	27.1		98.0	36.7	1964.	62.9	17.2
20	72.2	22.3		81.5	27.5		93.0	33.9	1970.	62.9	17.2
21	73.2	22.9		82.3	28.0		97.0	36.1	1983.	64.2	17.9
22	72.9	22.7		81.8	27.7		97.0	36.1	1983.	64.1	17.8
23	72.0	22.2		80.9	27.2		93.0	33.9	1964.	63.1	17.3
24	72.2	22.3		81.6	27.5		93.0	33.9	1983.+	62.9	17.1
25	71.7	22.1		81.1	27.3		95.0	35.0	1964.	62.4	16.9
26	72.7	22.6		82.1	27.8		104.0	40.0	1983.	63.4	17.4
27	71.7	22.0		80.5	26.9		91.0	32.8	1983.+	62.9	17.2
28	71.4	21.9		80.0	26.6		94.0	34.4	1963.	62.8	17.1
29	71.4	21.9		80.1	26.7		93.0	33.9	1985.	62.8	17.1
30	70.8	21.5		79.8	26.5		92.0	33.3	1971.	61.8	16.6
MONTH	73.2	22.9		82.4	28.0		106.0	41.1	1964.	64.0	17.8
										46.0	7.8
										1965.	

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
 PERIOD OF RECORD : 1958-1987  
 LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
 MONTH : OCT

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
DAY	AVERAGE		DATE	AVERAGE		DATE	AVERAGE		DATE	EXTREME	
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C			
1	70.6	21.5		79.7	26.5	1980.	61.6	16.4		51.0	10.6
2	69.8	21.0		79.3	26.3	1980.	60.4	15.8		47.0	8.3
3	69.6	20.9		79.1	26.1	1970.	60.2	15.6		44.0	6.7
4	69.5	20.8		77.6	25.3	1980.+	61.4	16.3		47.0	8.3
5	69.0	20.6		77.2	25.1	1964.	60.9	16.1		49.0	9.4
6	68.4	20.2		76.9	24.9	1983.	60.0	15.6		50.0	10.0
7	68.1	20.1		77.1	25.1	1983.	59.1	15.1		49.0	9.4
8	68.6	20.3		76.8	24.9	1983.+	60.4	15.8		46.0	7.8
9	68.1	20.0		76.4	24.7	1963.	59.7	15.4		48.0	8.9
10	68.3	20.2		76.6	24.8	1981.	60.1	15.6		50.0	10.0
11	67.7	19.8		76.5	24.7	1981.	58.9	14.9		48.0	8.9
12	67.1	19.5		75.7	24.3	1981.	58.5	14.7		50.0	10.0
13	67.9	19.9		76.5	24.7	1971.	59.3	15.2		46.0	7.8
14	67.0	19.4		75.0	23.9	1981.	58.9	15.0		45.0	7.2
15	66.7	19.3		75.3	24.0	1981.	58.1	14.5		49.0	9.4
16	66.2	19.0		74.8	23.8	1958.	57.6	14.2		46.0	7.8
17	66.1	18.9		74.6	23.7	1985.+	57.5	14.2		46.0	7.8
18	66.3	19.0		75.3	24.1	1981.	57.3	14.0		48.0	8.9
19	65.8	18.8		74.5	23.6	1964.	57.1	13.9		48.0	8.9
20	65.3	18.5		74.2	23.4	1981.	56.5	13.6		49.0	9.4
21	65.3	18.5		74.7	23.7	1986.+	56.0	13.4		47.0	8.3
22	66.0	18.9		74.6	23.7	1983.	57.5	14.1		45.0	7.2
23	65.1	18.4		74.3	23.5	1985.+	55.9	13.3		41.0	5.0
24	65.8	18.8		73.2	22.9	1985.	58.4	14.6		44.0	6.7
25	65.4	18.5		73.5	23.1	1985.	57.2	14.0		46.0	7.8
26	64.8	18.2		73.5	23.1	1982.	56.1	13.4		46.0	7.8
27	64.3	18.0		73.0	22.8	1982.	55.7	13.2		44.0	6.7
28	64.2	17.9		73.0	22.8	1980.	55.3	13.0		46.0	7.8
29	63.7	17.6		72.9	22.7	1980.	54.6	12.5		42.0	5.6
30	63.1	17.3		71.7	22.0	1982.	54.6	12.6		42.0	5.6
31	63.2	17.3		72.3	22.4	1982.	54.1	12.3		40.0	4.4
MONTH	66.7	19.3		75.3	24.1	1980.+	58.0	14.5		40.0	4.4

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : NOV

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
AVERAGE		AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
DAY	DEG F	DEG C	DEG F	DEG C	DEG F	DEG C	DATE	DEG F	DEG C	DEG F	DATE
1	63.4	17.4	73.0	22.8	82.0	27.8	1970.	53.8	12.1	39.0	3.9 1966.
2	63.0	17.2	70.8	21.6	83.0	28.3	1970.	55.2	12.9	40.0	4.4 1966.
3	62.1	16.7	70.4	21.3	81.0	27.2	1982.+	53.7	12.1	45.0	7.2 1966.
4	62.5	16.9	70.3	21.3	83.0	28.3	1970.	54.6	12.6	45.0	7.2 1970.
5	61.9	16.6	69.4	20.8	83.0	28.3	1970.	54.4	12.4	43.0	6.1 1970.
6	61.2	16.2	68.6	20.3	79.0	26.1	1981.+	53.9	12.2	41.0	5.0 1974.
7	60.8	16.0	68.3	20.2	79.0	26.1	1981.	53.3	11.8	40.0	4.4 1974.
8	60.6	15.9	68.0	20.0	78.0	25.6	1958.	53.2	11.8	39.0	3.9 1971.
9	60.7	15.9	67.9	20.0	81.0	27.2	1985.	53.4	11.9	45.0	7.2 1974.
10	59.5	15.3	67.7	19.9	76.0	24.4	1977.	51.4	10.8	42.0	5.6 1974.
11	60.4	15.8	67.7	19.9	77.0	25.0	1981.	53.1	11.7	37.0	2.8 1971.
12	60.2	15.7	68.3	20.1	79.0	26.1	1981.	52.2	11.2	35.0	1.7 1971.
13	59.2	15.1	67.2	19.5	82.0	27.8	1975.	51.2	10.7	32.0	.0 1971.
14	59.1	15.1	66.9	19.4	79.0	26.1	1975.	51.4	10.8	36.0	2.2 1971.
15	58.1	14.5	66.5	19.1	83.0	28.3	1975.	49.8	9.9	40.0	4.4 1961.
16	58.0	14.5	66.5	19.2	77.0	25.0	1981.	49.5	9.7	40.0	4.4 1959.
17	58.3	14.6	66.0	18.9	75.0	23.9	1981.	50.7	10.4	43.0	6.1 1976.+
18	58.3	14.6	66.8	19.4	75.0	23.9	1981.	49.7	9.8	40.0	4.4 1966.
19	58.2	14.5	66.8	19.3	74.0	23.3	1978.	49.6	9.8	35.0	1.7 1975.
20	58.7	14.8	67.2	19.6	75.0	23.9	1981.	50.2	10.1	38.0	3.3 1962.
21	58.7	14.9	67.5	19.7	75.0	23.9	1981.	50.0	10.0	38.0	3.3 1976.+
22	58.3	14.6	66.6	19.2	74.0	23.3	1973.	50.1	10.0	32.0	.0 1987.
23	57.7	14.3	66.5	19.2	79.0	26.1	1981.	48.8	9.4	37.0	2.8 1985.+
24	56.9	13.8	65.5	18.6	77.0	25.0	1981.	48.3	9.1	38.0	3.3 1976.+
25	57.7	14.3	66.2	19.0	75.0	23.9	1981.	49.3	9.6	35.0	1.7 1977.
26	57.5	14.1	65.6	18.7	77.0	25.0	1981.	49.3	9.6	34.0	1.1 1977.
27	55.7	13.2	64.3	17.9	75.0	23.9	1981.	47.2	8.5	37.0	2.8 1976.+
28	55.8	13.2	64.4	18.0	75.0	23.9	1981.	47.2	8.5	37.0	2.8 1987.
29	55.3	13.0	63.9	17.7	72.0	22.2	1986.+	46.7	8.2	36.0	2.2 1980.+
30	54.8	12.7	62.9	17.1	73.0	22.8	1983.	46.8	8.2	37.0	2.8 1980.
MONTH	59.1	15.1	67.3	19.6	83.0	28.3	1975.+	50.9	10.5	32.0	.0 1987.+

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

013025 ROYA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : DEC

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
DAY	AVERAGE		DATE	AVERAGE		EXTREME	DATE	AVERAGE		EXTREME	DATE
	DEG F	DEG C		DEG F	DEG C			DEG F	DEG C		
1	55.1	12.8		64.0	17.8	75.0	1985.+	46.2	7.9	30.0	-1.1 1980.
2	55.6	13.1		63.5	17.5	73.0	1985.	47.7	8.7	30.0	-1.1 1980.
3	55.6	13.1		63.8	17.6	72.0	1985.	47.5	8.6	33.0	.6 1969.
4	55.2	12.9		63.9	17.7	73.0	1981.+	46.4	8.0	34.0	1.1 1973.
5	54.8	12.7		63.9	17.7	72.0	1978.	45.8	7.7	36.0	2.2 1980.+
6	55.2	12.9		63.4	17.4	68.0	1984.+	47.1	8.4	32.0	.0 1980.
7	55.5	13.1		62.8	17.1	68.0	1982.+	48.3	9.0	38.0	3.3 1980.
8	55.4	13.0		62.5	17.0	70.0	1978.+	48.3	9.1	37.0	2.8 1969.+
9	54.7	12.6		62.3	16.9	73.0	1978.	47.0	8.3	32.0	.0 1970.
10	55.5	13.0		63.2	17.3	72.0	1981.+	47.8	8.8	37.0	2.8 1971.
11	55.9	13.3		63.1	17.3	72.0	1981.+	48.7	9.3	35.0	1.7 1967.
12	55.1	12.8		62.8	17.1	72.0	1981.	47.4	8.6	34.0	1.1 1967.
13	54.6	12.6		62.0	16.7	72.0	1981.	47.3	8.5	31.0	-.6 1967.
14	54.1	12.3		62.4	16.9	72.0	1981.	45.8	7.7	33.0	.6 1967.
15	54.2	12.3		61.6	16.4	70.0	1981.	46.8	8.2	34.0	1.1 1969.
16	54.6	12.6		62.3	16.8	72.0	1981.+	47.0	8.4	34.0	1.1 1970.
17	54.0	12.2		61.0	16.1	73.0	1987.	47.0	8.3	32.0	.0 1970.
18	54.1	12.3		61.8	16.5	72.0	1987.	46.4	8.0	35.0	1.7 1967.
19	53.8	12.1		61.9	16.6	70.0	1987.	45.7	7.6	34.0	1.1 1970.
20	53.3	11.8		61.0	16.1	68.0	1983.	45.6	7.6	36.0	2.2 1970.+
21	53.3	11.8		60.7	15.9	67.0	1974.	45.9	7.7	30.0	-1.1 1979.
22	53.6	12.0		61.8	16.6	70.0	1981.+	45.3	7.4	27.0	-2.8 1979.
23	53.4	11.9		61.6	16.4	70.0	1980.+	45.2	7.3	34.0	1.1 1970.
24	53.6	12.0		61.0	16.1	70.0	1977.	46.3	8.0	30.0	-1.1 1970.
25	52.6	11.5		60.1	15.6	72.0	1977.	45.2	7.3	25.0	-3.9 1970.
26	52.2	11.2		59.5	15.3	67.0	1977.+	44.9	7.2	36.0	2.2 1986.+
27	53.4	11.9		60.9	16.1	72.0	1983.	45.8	7.7	32.0	.0 1964.
28	53.1	11.7		60.9	16.0	71.0	1974.	45.4	7.4	32.0	.0 1969.
29	53.0	11.7		60.2	15.7	71.0	1974.	45.9	7.7	36.0	2.2 1970.
30	52.7	11.5		60.7	15.9	72.0	1983.	44.8	7.1	33.0	.6 1964.
31	53.0	11.7		61.2	16.2	68.0	1966.	44.8	7.1	33.0	.6 1967.
MONTH	54.2	12.3		62.0	16.7	75.0	1985.+	46.4	8.0	25.0	-3.9 1970.

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0

MAXIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	87	78	66	MISS
1959	71	67	71	81	85	91	96	92	87	83	75	68	96
1960	68	77	77	75	91	89	96	96	92	77	70	65	96
1961	62	74	76	83	86	94	91	99	90	84	77	69	99
1962	68	68	67	77	87	90	98	104	94	86	72	65	104
1963	63	63	73	80	86	93	96	100	94	87	73	65	100
1964	66	73	78	88	92	96	104	106	106	91	74	70	106
1965	68	70	79	86	96	101	88	98	87	83	79	67	101
1966	69	70	79	84	89	94	90	96	100	83	69	68	100
1967	68	71	79	79	93	94	104	96	88	84	PART	68	PART
1968	72	66	69	76	85	95	94	93	93	85	72	69	95
1969	70	64	72	80	86	93	96	95	82	81	76	63	96
1970	69	74	76	84	90	89	101	96	100	93	83	68	101
1971	66	77	77	76	81	98	97	94	95	92	75	66	98
1972	63	65	74	79	89	90	94	95	86	81	76	67	95
1973	65	69	73	82	91	93	103	105	93	84	78	66	105
1974	68	68	70	73	91	94	100	99	87	87	75	73	100
1975	70	70	67	72	76	91	108	101	87	84	83	68	108
1976	68	71	74	70	87	94	102	106	87	87	70	72	106
1977	66	72	77	85	89	90	91	92	94	87	79	72	94
1978	71	75	81	76	82	87	102	PART	95	80	77	73	PART
1979	69	68	72	78	87	91	100	99	95	82	79	75	100
1980	75	72	81	92	83	94	99	104	97	94	73	70	104
1981	72	73	82	75	84	106	99	91	93	90	81	73	106
1982	72	72	82	84	90	99	100	117	99	88	81	68	117
1983	72	75	81	84	86	100	91	99	104	90	81	73	104
1984	64	70	70	81	81	88	99	97	90	84	73	70	99
1985	73	72	72	84	81	88	100	99	97	90	81	75	100
1986	64	66	75	82	91	91	99	99	93	86	77	72	99
1987	66	79	81	84	84	97	95	100	102	82	77	73	102
MEAN	68.2	70.7	75.3	80.3	86.9	93.4	97.7	98.9	93.3	85.7	76.3	69.2	101.1
S.D.	3.321	3.990	4.538	5.023	4.373	4.364	4.722	5.475	5.802	4.051	3.876	3.245	4.982
TOT OBS	29	29	29	29	29	29	29	28	29	30	27	30	27

# 30 - EXTREME VALUES

MAXIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
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## YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MAX TEMP # DAYS
1967											70.		29
1978								99.					MAX TEMP # DAYS
								30					

## 31 - EXTREME VALUES

MINIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	49	42	40	MISS
1959	37	39	42	45	47	54	60	60	57	44	40	36	36
1960	31	33	46	45	51	60	59	59	57	49	41	36	31
1961	35	42	42	49	54	54	61	64	58	49	40	43	35
1962	41	38	43	48	48	56	58	60	56	53	38	30	30
1963	33	35	39	44	50	54	54	56	52	48	38	35	33
1964	35	34	42	42	52	55	60	59	60	45	40	32	32
1965	32	33	37	44	52	52	51	51	46	56	38	37	32
1966	40	40	38	44	47	54	57	58	58	41	38	35	35
1967	31	41	39	43	51	58	62	59	55	49	PART	31	PART
1968	33	37	41	42	47	58	60	60	54	56	47	35	33
1969	35	36	38	45	51	57	63	61	55	53	42	32	32
1970	38	32	36	43	43	52	58	55	50	41	43	25	25
1971	28	38	34	41	46	50	57	54	54	50	32	36	28
1972	32	37	37	41	44	48	56	55	52	46	43	35	32
1973	35	34	38	38	50	52	56	60	52	44	43	34	34
1974	37	38	37	43	48	57	62	57	50	40	40	37	37
1975	36	43	39	39	47	47	57	61	48	46	35	36	35
1976	30	39	41	43	50	56	60	64	54	47	37	38	30
1977	37	41	36	42	48	50	57	55	56	54	34	46	34
1978	31	35	42	44	48	56	59	PART	64	49	44	35	PART
1979	41	36	38	43	48	50	61	62	52	46	41	27	27
1980	38	41	41	43	52	57	58	61	59	48	36	30	30
1981	30	34	43	46	48	57	59	61	55	48	45	39	30
1982	41	43	43	48	50	57	59	61	55	46	46	39	39
1983	39	32	45	45	52	52	59	61	59	52	52	37	32
1984	34	37	37	48	48	52	59	61	57	46	45	34	34
1985	30	46	39	46	46	57	61	61	63	50	37	41	30
1986	37	36	41	39	50	55	61	57	59	52	45	34	34
1987	32	37	37	46	50	54	63	63	64	48	32	43	32
MEAN	34.8	37.5	39.7	43.8	48.9	54.2	58.9	59.1	55.6	48.2	40.5	35.6	32.3
S.D.	3.736	3.582	2.917	2.734	2.540	3.208	2.642	3.135	4.396	4.078	4.587	4.576	3.061
TOT OBS	29	29	29	29	29	29	29	28	29	30	29	30	27

31 - EXTREME VALUES

MINIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987

LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
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YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MIN TEMP # DAYS
1967											41.	29	
1978								60.					MIN TEMP # DAYS
								30					

HEATING DEGREE DAYS (BASE 65 DEG F)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	12	199	260	MISS
1959	278	335	237	137	54	4	0	0	0	43	199	336	1623
1960	401	248	200	97	29	0	0	0	0	53	154	423	1605
1961	418	221	172	86	5	4	0	0	0	43	201	232	1382
1962	300	314	233	101	37	2	0	0	2	4	270	374	1637
1963	302	330	230	108	36	2	0	0	2	10	159	340	1519
1964	401	253	233	165	0	1	0	0	0	38	214	430	1735
1965	404	348	208	94	7	6	5	3	31	6	186	363	1661
1966	282	225	281	102	12	0	0	0	0	81	357	422	1762
1967	396	268	150	147	41	0	0	0	2	31	MISS	462	MISS
1968	456	283	289	153	64	3	0	0	0	0	104	330	1682
1969	297	293	225	155	62	5	0	0	8	13	204	471	1733
1970	299	316	321	134	82	6	0	0	1	60	110	493	1822
1971	396	294	339	207	109	20	0	1	0	2	327	421	2116
1972	448	335	328	202	119	41	0	0	6	37	175	354	2045
1973	377	365	294	129	4	8	0	0	1	52	114	414	1758
1974	317	316	339	244	40	0	0	0	1	145	175	294	1871
1975	342	220	328	273	166	17	0	0	12	55	207	346	1966
1976	455	298	287	238	47	0	0	0	0	73	284	244	1926
1977	309	250	208	125	57	16	0	0	0	9	169	159	1302
1978	323	228	229	186	84	11	0	MISS	0	7	97	146	MISS
1979	233	211	275	154	46	2	0	0	0	40	178	332	1471
1980	361	251	228	113	33	0	0	0	0	36	167	417	1606
1981	410	316	144	159	71	0	0	0	0	2	22	144	1268
1982	225	172	95	52	6	0	0	0	0	20	117	314	1001
1983	275	271	98	82	30	0	0	0	0	1	26	269	1052
1984	412	345	277	43	110	20	0	0	0	21	148	269	1645
1985	407	122	272	57	52	0	0	0	0	5	180	253	1348
1986	388	284	254	241	27	0	0	0	0	0	157	370	1721
1987	375	250	169	82	20	2	0	0	0	32	203	145	1278



COOLING DEGREE DAYS (BASE 65 DEG F)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	66	4	0	MISS
1959	0	0	0	2	24	163	312	321	182	82	3	0	1089
1960	0	6	0	6	105	235	316	274	218	12	0	0	1172
1961	0	0	9	5	123	199	364	438	277	66	4	0	1485
1962	0	0	0	1	70	186	305	415	299	142	0	0	1418
1963	0	0	0	4	60	157	331	288	134	98	6	0	1078
1964	0	0	0	36	141	225	407	466	469	93	3	0	1840
1965	0	0	5	15	148	176	80	207	56	74	5	0	766
1966	0	0	0	3	126	179	226	322	302	49	0	0	1207
1967	0	0	2	4	55	246	340	328	151	85	MISS	0	MISS
1968	0	0	0	1	46	163	313	287	218	137	4	0	1169
1969	0	0	0	5	33	120	368	352	111	69	4	0	1062
1970	0	0	0	7	80	99	338	249	273	70	9	0	1125
1971	0	0	0	0	4	99	298	154	183	136	1	0	875
1972	0	0	0	0	59	55	235	248	109	49	0	0	755
1973	0	0	0	7	97	141	260	371	179	43	13	0	1111
1974	0	0	0	0	83	198	424	380	137	23	0	0	1245
1975	0	0	0	0	0	132	392	390	148	70	6	0	1138
1976	0	0	0	0	37	261	384	422	181	54	0	0	1339
1977	0	0	0	24	40	73	212	248	287	101	12	0	997
1978	0	0	0	1	15	66	360	MISS	371	119	19	5	MISS
1979	0	0	0	1	60	192	370	405	267	59	3	0	1357
1980	0	0	7	19	41	201	299	447	398	109	4	0	1525
1981	0	0	8	3	37	276	392	332	275	163	39	19	1544
1982	0	0	10	17	126	276	329	467	358	100	19	0	1702
1983	0	0	11	28	40	309	257	292	377	200	24	0	1538
1984	0	0	0	9	5	133	411	379	261	75	1	0	1274
1985	0	0	0	24	38	193	367	370	375	173	21	0	1561
1986	0	0	0	3	158	178	411	328	329	134	0	0	1541
1987	0	2	10	25	50	242	373	383	441	74	11	3	1614

MEAN TEMPERATURE (DEG F)  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	66.7	58.5	56.6	MISS
1959	56.0	53.0	57.3	60.5	64.0	70.2	75.0	75.3	71.0	66.2	58.4	54.1	63.4
1960	52.0	56.3	58.5	61.9	67.4	72.8	75.1	73.8	72.2	63.6	59.8	51.3	63.7
1961	51.5	57.1	59.7	62.2	68.8	71.5	76.7	79.1	74.2	65.7	58.4	57.5	65.2
1962	55.3	53.7	57.4	61.6	66.0	71.1	74.8	78.3	74.8	69.4	56.0	52.9	64.3
1963	55.2	53.2	57.5	61.5	65.7	70.1	75.6	74.2	69.3	67.8	59.8	54.0	63.7
1964	52.0	55.9	57.4	60.6	69.5	72.4	78.1	80.0	80.6	66.7	57.9	51.1	65.2
1965	51.9	52.5	58.4	62.3	69.5	70.6	67.4	71.5	65.8	67.1	58.9	53.2	62.4
1966	55.9	56.9	55.9	61.6	68.6	70.9	72.2	75.3	75.0	63.9	53.0	51.3	63.4
1967	52.2	55.4	60.2	60.2	65.4	73.1	75.9	75.5	69.9	66.7	58.2P	50.0	MISS
1968	50.2	54.8	55.6	59.9	64.4	70.3	75.0	74.2	72.2	69.4	61.6	54.3	63.5
1969	55.4	54.5	57.7	60.0	64.0	68.8	76.8	76.3	68.4	66.8	58.3	49.8	63.1
1970	55.3	53.7	54.6	60.7	64.9	68.0	75.9	73.0	74.0	65.3	61.6	49.0	63.0
1971	52.2	54.5	54.0	58.0	61.6	67.6	74.6	69.9	71.0	69.3	54.1	51.4	61.5
1972	50.5	53.0	54.4	58.2	63.0	65.4	72.5	73.0	68.4	65.3	59.1	53.5	61.4
1973	52.8	51.9	55.5	60.9	68.0	69.4	73.3	76.9	70.9	64.7	61.6	51.6	63.1
1974	54.7	53.7	54.0	56.8	66.3	71.5	78.6	77.2	69.5	61.0	59.1	55.5	63.2
1975	53.9	57.1	54.4	55.8	59.6	68.8	77.6	77.5	69.5	65.4	58.2	53.8	62.6
1976	50.3	54.3	55.7	57.0	64.6	73.6	77.3	78.6	71.0	64.3	55.5	57.1	63.3
1977	55.0	56.0	58.2	61.6	64.4	66.8	71.8	73.0	74.5	67.9	59.7	59.8	64.1
1978	54.5	56.8	57.6	58.8	62.7	66.8	76.6	77.1P	77.3	68.6	62.3	60.4	MISS
1979	57.4	57.4	56.1	59.8	65.4	71.3	76.9	78.0	73.8	65.6	59.1	54.2	64.6
1980	53.3	56.0	57.8	61.8	65.2	71.6	74.6	79.4	78.2	67.3	59.5	51.5	64.7
1981	51.7	53.7	60.6	59.7	63.9	74.1	77.6	75.7	74.1	70.1	65.5	60.9	65.6
1982	57.7	58.8	62.2	63.8	68.8	74.1	75.6	80.0	76.9	67.5	61.7	54.8	66.8
1983	56.1	55.3	62.1	63.1	65.3	75.2	73.2	74.4	77.5	71.4	64.9	56.3	66.2
1984	51.7	52.6	56.0	63.8	61.6	68.7	78.2	77.2	73.6	66.7	60.0	56.3	63.9
1985	51.8	60.6	56.2	63.8	64.5	71.4	76.8	76.9	77.5	70.4	59.6	56.8	65.5
1986	52.4	54.8	56.8	57.0	69.2	70.9	78.2	75.5	75.9	69.3	59.7	53.0	64.4
1987	52.9	56.1	59.8	63.0	65.9	73.0	77.0	77.3	79.6	66.3	58.5	60.4	65.8

TOTAL PRECIPITATION (INCHES)  
(FROM DAILY OBS)013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
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YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	1.43	2.65	11.95	MISS
1959	2.02	1.43	3.41	1.29	1.67	.02	T	.14	.11	1.91	3.46	1.06	16.52
1960	2.54	4.35	5.60	1.14	2.09	.05	.00	T	.25	8.93	2.31	1.72	28.98
1961	1.48	.26	3.29	.93	3.74	.22	T	T	1.50	1.81	14.21	4.10	31.54
1962	2.69	1.49	4.47	1.30	1.32	.84	.00	T	.65	9.55	3.97	6.00	32.28
1963	7.24	3.95	1.34	2.24	1.90	.66	.00	.00	.47	1.08	3.43	13.42	35.73
1964	1.95	3.41	2.38	1.25	1.56	.66	T	T	.37	.08	2.68	3.46	17.80
1965	1.99	2.81	2.40	.21	.01	1.28	.00	.00	2.83	4.43	3.46	1.16	20.58
1966	2.42	3.13	.05	1.53	.18	.62	T	.00	1.52	2.66	2.53	.40	15.04
1967	2.13	3.72	.76	.51	1.47	.29	.01	.01	.11	3.61	7.27P	.51	13.13P
1968	.06	5.50	3.33	.95	.87	.40	.02	.43	.21	1.20	4.28	2.29	19.54
1969	4.13	6.48	5.42	1.86	.94	1.19	.02	T	1.43	3.79	7.37	1.58	34.21
1970	9.14	.38	1.38	.76	1.38	1.29	.00	T	T	1.02	1.44	3.65	20.44
1971	4.24	.20	1.54	4.11	3.89	.52	T	1.02	T	T	1.49	1.22	18.23
1972	5.44	2.48	3.92	.81	.24	.22	.04	T	.95	7.37	3.27	4.72	29.46
1973	2.52	.36	1.52	.19	2.84	.23	T	.02	.00	.76	2.05	4.01	14.50
1974	1.28	.96	1.96	4.16	.11	1.37	.01	T	T	.29	2.72	.47	13.33
1975	2.89	5.55	2.83	1.68	.52	.22	T	T	.32	.12	.35	3.94	18.42
1976	1.01	1.54	2.66	3.48	1.35	.03	.01	.62	3.35	4.39	.69	5.94	25.07
1977	4.60	3.31	.27	.03	.09	.76	1.57	T	.12	2.52	4.26	5.07	22.60
1978	.69	3.48	1.26	1.91	1.28	.47	.00	T	.05	2.47	3.33	4.91	19.85P
1979	5.77	3.60	2.23	.53	.01	.06	T	.00	.54	5.31	.10	.55	18.70
1980	1.76	.77	1.96	.36	2.91	.07	.00	.03	.09	2.03	6.66	.09	16.73
1981	T	.45	1.30	2.23	.87	T	.01	.00	1.02	.39	.03	6.24	12.54
1982	4.88	1.17	1.16	.94	.03	T	.04	.08	.33	.19	3.82	1.57	14.21
1983	T	1.27	.17	1.99	.46	.01	.00	.02	.02	.26	8.62	4.82	17.64
1984	.57	1.25	2.87	.75	2.41	.09	.00	T	.10	.86	10.16	.76	19.82
1985	5.76	3.23	.05	2.25	1.30	.37	T	.00	T	T	3.12	3.31	19.39
1986	.82	3.22	1.70	1.55	.14	.06	T	.00	1.35	.71	3.72	.83	14.10
1987	4.64	4.28	.32	2.03	.10	.02	T	1.25	.48	4.38	1.86	6.58	25.94

36 - WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENON  
(FROM DAILY OBSERVATIONS)

013025 ROTA, SPAIN  
PERIOD OF RECORD : 1958-1987  
LAT. : 36 38N LONG. : 06 21W ELEV. : 86 FT  
MONTH : ALL

MONTH	HOURS (LST)	TSTM	RAIN E/OR DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST & OBS. E/OR W/OBS.	SAND VISION	TOTAL NO. OF OBS.
JAN	DAILY	4.1	43.2	.0	.4	.4	43.2	36.9	33.7	.0	.0	50.1	715
FEB	DAILY	6.2	45.3	.0	.0	.8	45.3	33.1	27.2	.0	.0	45.0	614
MAR	DAILY	5.7	37.5	.0	.0	.4	37.5	22.3	26.2	.0	.0	36.5	669
APR	DAILY	6.3	35.0	.0	.0	.8	35.0	19.6	26.8	.0	.0	34.5	649
MAY	DAILY	2.7	23.5	.0	.0	.1	23.5	12.8	24.0	.0	.0	27.7	671
JUN	DAILY	3.5	18.2	.0	.0	.3	18.2	17.8	34.9	.0	.2	40.1	653
JUL	DAILY	.3	5.0	.0	.0	.0	5.0	16.3	45.1	.0	.4	48.5	701
AUG	DAILY	.9	6.8	.0	.0	.3	6.8	16.1	35.6	.0	.0	37.9	672
SEP	DAILY	4.0	17.1	.0	.0	.0	17.1	17.3	30.4	.0	.0	36.4	671
OCT	DAILY	7.4	32.0	.0	.0	.0	32.0	22.2	24.3	.0	.1	34.1	725
NOV	DAILY	7.3	37.6	.0	.3	.6	37.8	27.0	29.9	.0	.0	42.7	712
DEC	DAILY	8.0	43.7	.0	.4	.7	43.7	34.9	34.5	.0	.0	49.8	737
ANN	DAILY	4.7	28.8	.0	.1	.4	28.8	23.1	31.1	.0	.1	40.4	8189

NOTES :  
\* = PERCENT < .05

	MEAN NO. OF DAYS WITH	(3)	
	PRECIP.	SNOW-	TEMP
1	1	1	1

[illegible][illegible]

\*\*\*\*\* = A STAR FILLED FIELD -- DATA NOT AVAILABLE